Appendix F

Final Air Quality Technical Report

AECOM

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Memorandum

			Pages	70 (without appendices)
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CC	Courtney Pash; Victoria Lehman; Nicole Avril; Charlene Angsuco			
Subject	India Basin Mixed-Use Project Final Air Quality Technical Report			
From	Mary Kaplan; Kim Zuk; Eric Carlson; Paola Pena; Jason Paukovits Kelsey Bennett; Elliott Schwimmer; David Reel			
Date	May 26, 2017			

AECOM has prepared this air quality technical report (AQTR) for the proposed San Francisco Recreation and Parks Department (RPD) and BUILD project at India Basin (India Basin Shoreline Park [IBSP], 900 Innes, India Basin Open Space [IBOS], and 700 Innes), referred to as the proposed project. Two options for the proposed project were studied: a residential mixed-use project (Residential Project) and a maximum commercial variant (Maximum Commercial Variant). Both project options would be located along the India Basin shoreline of San Francisco Bay (Bay) in San Francisco, California.

This AQTR is required by the Environmental Planning Division of the San Francisco Planning Department (Planning Department) for compliance with the California Environmental Quality Act (CEQA) and is consistent with the 2012 Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines (BAAQMD, 2012a). This AQTR describes the Residential Project and Maximum Commercial Variant, the modeling methodologies used to perform the air quality analyses for this AQTR, and the results of the analyses. Analyses performed were based on the most up-to-date information available regarding specific details of the project.

This AQTR addresses the following topics:

- **Section 1.0, "Introduction,"** describes the project understanding, existing air quality setting, and the purpose and approach of this AQTR.
- **Section 2.0, "Emissions Estimates,"** describes the methods used to estimate the emissions of criteria air pollutants, precursors, and toxic air contaminants (TACs) generated by project construction and operation. Results before and after incorporation of control measures are also provided.
- **Section 3.0, "Air Dispersion Modeling,"** describes the methods used to model pollutant dispersion and estimate contributions of project sources to pollutant concentrations. Results before and after incorporation of control measures are also provided.
- **Section 4.0, "Health Risk Analysis,"** provides an overview of the methodology for estimating potential health risks to new and existing sensitive receptors. Results before and after incorporation of control measures are also provided.
- **Section 5.0, "Uncertainties,"** discusses the uncertainties and limitations associated with the health risk analysis.
- **Section 6.0, "References,"** lists the sources cited in this AQTR.

1.0 Introduction

Project Understanding

As co–project sponsors, RPD and BUILD propose to redevelop their parcels along the India Basin shoreline of the Bay (herein referred to collectively as the "proposed project"). The proposed project would encompass publicly and privately owned parcels, including existing streets, totaling approximately 39 acres (referred to herein as the "project site"). The larger India Basin area also includes properties owned by FivePoint (formerly Lennar Urban), Pacific Gas & Electric Company (PG&E), and the Port of San Francisco.

The BUILD part of the project would develop 17.12 acres of privately owned land, plus 5.94 acres of developed and undeveloped public rights-of-way in a phased development of residential, retail, commercial, office, research and development/laboratory and clinical care space, institutional, flex space,[1] and recreational and art uses. The two project options analyzed are shown in **Table 1**: a residentially focused mixed-use development (proposed Residential Project) and a variant with fewer dwelling units and more commercial development than the proposed Residential Project (Maximum Commercial Variant). BUILD would also redevelop 6.2 acres of RPD property along the shoreline, adjacent to privately owned land, into enhanced wetlands, a boardwalk, a beach, and a pier that would accommodate hand-powered boats. In addition, the creosote piles offshore from the IBSP and 900 Innes properties would be removed.

As part of both the proposed Residential Project and the Maximum Commercial Variant, RPD would improve 8 acres of publicly owned parcels along the shoreline, plus 1.58 acres of unimproved paper streets[2] to create a publicly accessible network of new and/or improved parkland and open space. This new shoreline network would extend the Blue Greenway, a portion of the San Francisco Bay Trail (Bay Trail) that will ultimately connect The Embarcadero to the north to Candlestick Point to the south, and would provide pedestrian and bicycle connections to and along the shoreline, fronting the Bay.

The project site is located in the Bayview Hunters Point neighborhood and is bounded by the Bay to the north, the Candlestick Point–Hunters Point Shipyard Development Project area to the east, Innes Avenue to the south, and Hunters Point Boulevard and Hawes Street to the west. Portions of Innes Avenue adjacent to the site are included in the project boundary.

The parcels that are collectively referred to as IBSP, 900 Innes, and IBOS are owned by RPD and total 14.2 acres. The public rights-of-way (Griffith Street, Hudson Avenue, Earl Street, and Arelious Walker Drive) total 7.52 acres. The parcels that are collectively referred to as the 700 Innes property are owned by or will be acquired by BUILD and total 23.06 acres.

The approximately 39-acre project site is generally flat, with a slope toward the Bay at the northeast corner. The site's elevation is highest along Innes Avenue at approximately 50 feet above mean sea level (msl), and is lowest along the shoreline at approximately 5 feet above msl.

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[1] Space that can be used for small local retail or office and residents.
[2] Roadways that appear on maps but have not been built.

TABLE 1
PROPOSED DEVELOPMENT PLAN

	Residential Project[1]	Maximum Commercial Variant[1]
Total Project Site Area[2]	38.84 acres *(23.06 + 14.02 + 1.58)*	38.84 acres
Residential Units	1,240 units (1,240,100 gsf)	500 units (417,300 gsf)
Retail/Commercial/R&D Laboratory/Clinical Care	279,145 gsf	1,003,815 gsf
Institutional/Education	53,499 gsf	53,499 gsf
Publicly Accessible Recreation/Open Space	829,700 sq. ft. (19 acres)	829,700 sq. ft. (19 acres)
Parking Spaces	1,820	1,932
Bicycle Spaces	1,240 minimum	500 minimum

Notes: gsf = gross square feet; R&D = research and development; sq. ft. = square feet

[1] The proposed Residential Project and the Maximum Commercial Variant represent the most likely scenarios for development and are also both considered conservative for purposes of this air quality analysis based on the proposed square footage for various land uses. However, it is possible that a combination of those scenarios could be developed.

[2] The site area includes 17.12 acres of privately owned land, 5.94 acres of developed and undeveloped public rights-of-way, 6.2 acres of San Francisco Recreation and Parks Department property along the shoreline, 8 acres of publicly owned parcels along the shoreline, and 1.58 acres of unimproved paper streets.

Source: Compiled by AECOM in 2017

Air Quality Setting

The project site is located in the City and County of San Francisco, which is part of the San Francisco Bay Area Air Basin (SFBAAB). Air quality in the SFBAAB is regulated at the regional level by BAAQMD and at the State and federal levels by the California Air Resources Board (ARB) and U.S. Environmental Protection Agency (EPA), respectively. BAAQMD attains and maintains air quality conditions in the SFBAAB through a comprehensive program of planning, regulation, enforcement, technical innovation, and promotion of the understanding of air quality issues.

The project has the potential to generate emissions during both the construction and operational phases. In addition to emissions generated by construction equipment and vehicles, and increased vehicular traffic once the project is complete, both the Residential Project and the Maximum Commercial Variant would add new stationary emissions sources. For both scenarios, up to eight emergency generators would be added as emergency power sources for the proposed mixed-use buildings.

Criteria Air Pollutants

In accordance with the California and federal Clean Air Acts, air pollutant standards are identified for six criteria air pollutants: ozone, carbon monoxide (CO), particulate matter (PM), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead. These air pollutants are called "criteria air pollutants" because they are regulated by developing specific public health and welfare–based criteria as the basis for setting permissible levels.

Ozone is a secondary air pollutant produced in the atmosphere through a complex series of photochemical reactions involving reactive organic gases (ROG) and oxides of nitrogen (NO_X). Construction activities for land use development projects typically generate PM emissions. Studies

have shown that applying best management practices at construction sites substantially controls fugitive PM dust (WRAP, 2006), and individual control measures have been shown to reduce fugitive dust by anywhere from 30 to 90 percent (BAAQMD, 2009:27). Regional concentrations of CO in the SFBAAB have not exceeded State standards in the past 11 years and SO_2 concentrations have never exceeded the standards.

In general, the SFBAAB experiences low concentrations of most pollutants when compared to federal or State standards. The SFBAAB is designated as either in attainment[3] or unclassified for most criteria pollutants, with the exceptions of ozone and particulate matter with an aerodynamic resistance diameter of 2.5 microns or less or 10 microns or less ($PM_{2.5}$ and PM_{10}), which are designated as nonattainment for either the State or federal standards. By its very nature, regional air pollution is largely a cumulative impact in that no single project is large enough to result in nonattainment of air quality standards by itself. Instead, a project's individual emissions contribute to existing cumulative air quality impacts.

Toxic Air Contaminants

In addition to criteria air pollutants, EPA regulates hazardous air pollutants, also known as TACs. TACs may be emitted by stationary, area, or mobile sources. Common stationary sources of TAC emissions include gasoline stations, dry cleaners, and diesel backup generators, which are subject to the requirements of local air districts' permits. The other, often more substantial, sources of TAC emissions are motor vehicles on freeways, on high-volume roadways, or in other areas with high numbers of diesel vehicles, such as distribution centers. Off-road mobile sources are also major contributors of TAC emissions and include construction equipment, ships, and trains.

TACs collectively refer to a diverse group of air pollutants that are capable of causing chronic (i.e., long-duration) and acute (i.e., severe but short-term) adverse effects on human health, including carcinogenic effects. Human health effects of TACs include birth defects, neurological damage, cancer, and mortality. There are hundreds of different types of TACs with varying degrees of toxicity. The health risks of individual TACs vary greatly; at a given level of exposure, one TAC may pose a hazard that is many times greater than another.

TACs can be separated into carcinogens and noncarcinogens based on the nature of the effects associated with exposure to the pollutant. For regulatory purposes, carcinogens are assumed to have no safe threshold below which health impacts would not occur. Any exposure to a carcinogen poses some risk of contracting cancer. Noncarcinogens differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

Based on citywide modeling conducted in 2012,[4] the project site had an excess cancer risk of greater than 20 in a million in the year 2014, largely because of nearby mobile sources. The project site is also projected to have an excess cancer risk of greater than 30 in a million in 2040, largely because of mobile sources from increased traffic in the area as the Hunters Point and Candlestick Point areas are redeveloped. Because this area is below the threshold of 10 micrograms per cubic meter ($\mu g/m^3$) for $PM_{2.5}$ and the 100-in-a-million excess cancer risk, it was not designated as an Air Pollutant Exposure Zone (APEZ) (SFDPH, 2016a).

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[3] "Attainment" status means that a region is meeting federal and/or State standards for a specified criteria pollutant. "Nonattainment" status means that the region does not meet federal and/or State standards for a specified criteria pollutant. "Unclassified" status means that there are not enough data to determine the region's attainment status for a specified criteria air pollutant.

[4] In an effort to identify areas of San Francisco most adversely affected by sources of TACs, San Francisco partnered with BAAQMD to conduct a citywide health risk assessment based on an inventory and assessment of air pollution and exposures from mobile, stationary, and area sources in San Francisco. Areas with poor air quality, termed the "Air Pollutant Exposure Zone," were identified based on health-protective criteria that consider estimated cancer risk, exposures to fine PM, proximity to freeways, and locations with particularly vulnerable populations.

Air pollution does not affect every individual in the population in the same way, and some groups are more sensitive than others to adverse health effects. Land uses such as residences, schools, daycare centers, hospitals, and nursing and convalescent homes are considered most sensitive to poor air quality because the population groups associated with these uses are more susceptible to respiratory distress or, for residential receptors, their exposure time is greater than that for other land uses. Therefore, these groups are referred to as sensitive receptors. BAAQMD defines sensitive receptors as children, adults, and seniors occupying or residing in residential dwellings, schools, daycare centers, hospitals, and senior-care facilities.

The project site is adjacent to an existing residential area whose sensitive receptors were evaluated for potential air quality impacts from the proposed project. Section 3.0, "Air Dispersion Modeling," and Section 4.0, "Health Risk Analysis," provide a full description of the air quality modeling and the health risk analyses and results.

Purpose and Approach

The purpose of this air quality analysis is to assess potential impacts caused by emissions of criteria air pollutants, ozone precursors, and TACs during construction and operation of the Residential Project and the Maximum Commercial Variant. The analysis was conducted consistent with guidance and methodologies from local, regional, State, and federal agencies, including BAAQMD (2010), ARB, the Office of Environmental Health Hazard Assessment (OEHHA), and EPA. Additionally, the purpose of this AQTR is to assess the results and determine whether modeling refinements are necessary. Feasible measures to reduce project impacts (i.e., control measures) were also identified for consideration by the Planning Department's Environmental Planning Division.

Analysis Evaluation

Consistent with CEQA requirements, the analysis evaluated all of the following:

- *Short-term construction and long-term operational emissions of criteria air pollutants and precursors* associated with the proposed Residential Project and Maximum Commercial Variant.

- *Health risk and hazard impacts of construction emissions* from the Residential Project and Maximum Commercial Variant on the existing off-site receptors located within 1,000 feet of the project site and future on-site sensitive receptors. The off-site analysis specifically evaluated impacts on existing residences located at 702, 714, 718, 744, 748, 800, 820, 828, and 860 Innes Avenue; on the west side of Innes Avenue; and on Northridge Road, Cleo Rand Lane, and Griffith Street. The Hamman Hillside Cove buildings included in project Phase I would be exposed to project-generated emissions during subsequent construction phases. **Figures 1** and **2** show the locations of sensitive receptors included in the modeling for the complete Residential Project and the complete Maximum Commercial Variant, respectively. The analyses of the complete Residential Project and the complete Maximum Commercial Variant include the same off-site receptor locations, but differ in the types of future on-site receptors (e.g., residential vs. commercial).

- *Health risk and hazard impacts of operational emissions* from the Residential Project and Maximum Commercial Variant on existing off-site sensitive receptors and future on-site sensitive receptors.

Project Sources

This AQTR evaluated the following sources of air quality emissions or exposures:

- construction-related emissions associated with the Residential Project and the Maximum Commercial Variant that have the potential to affect regional air quality and local sensitive receptors; and

- operational emissions associated with the Residential Project and the Maximum Commercial Variant that have the potential to affect regional air quality and local sensitive receptors. This includes the addition of emergency generators under both the Residential Project and the Maximum Commercial Variant.

Figure 1: Sensitive Receptors Associated with the Residential Project
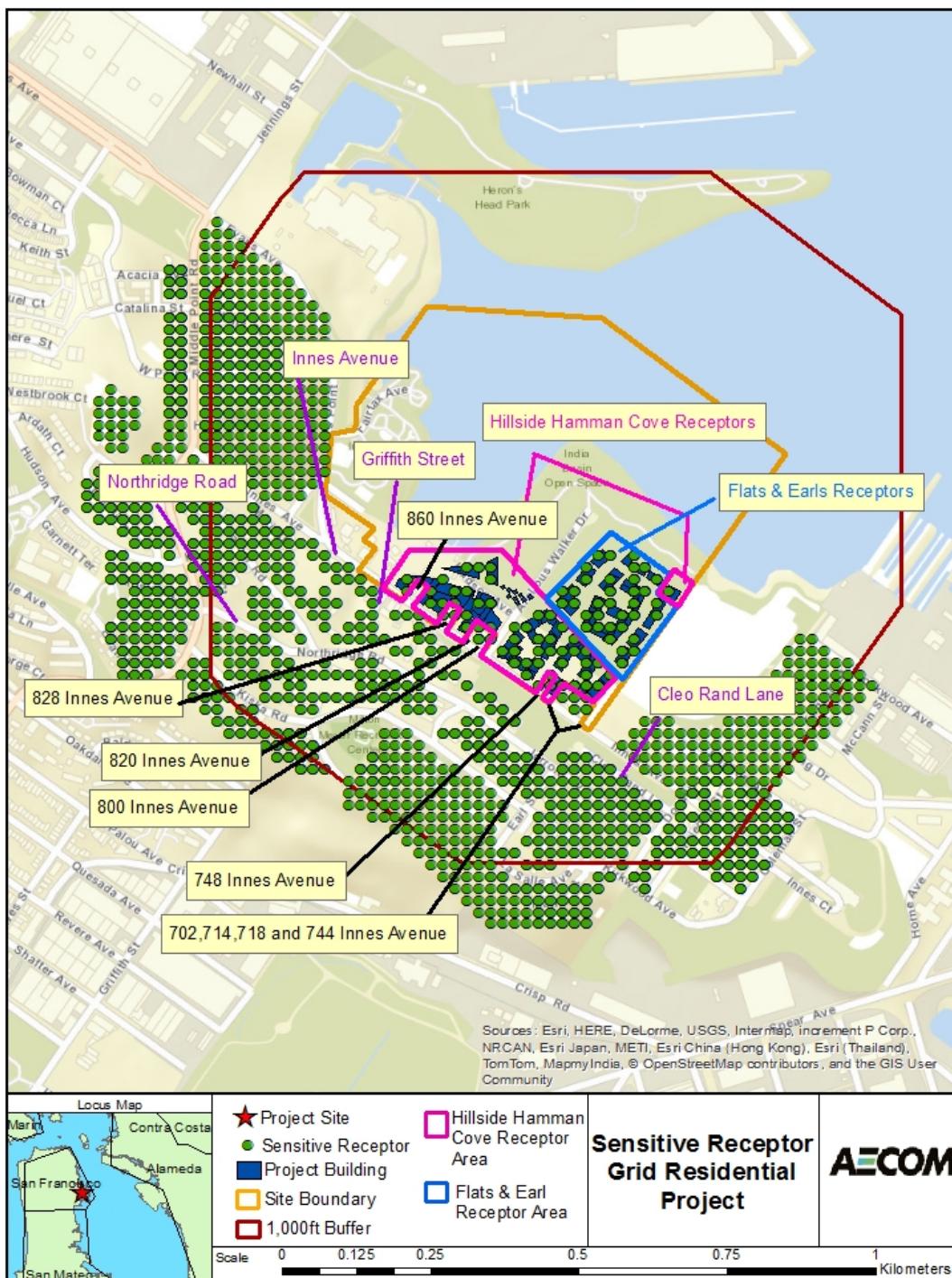
Figure 2: Sensitive Receptors Associated with the Maximum Commercial Variant
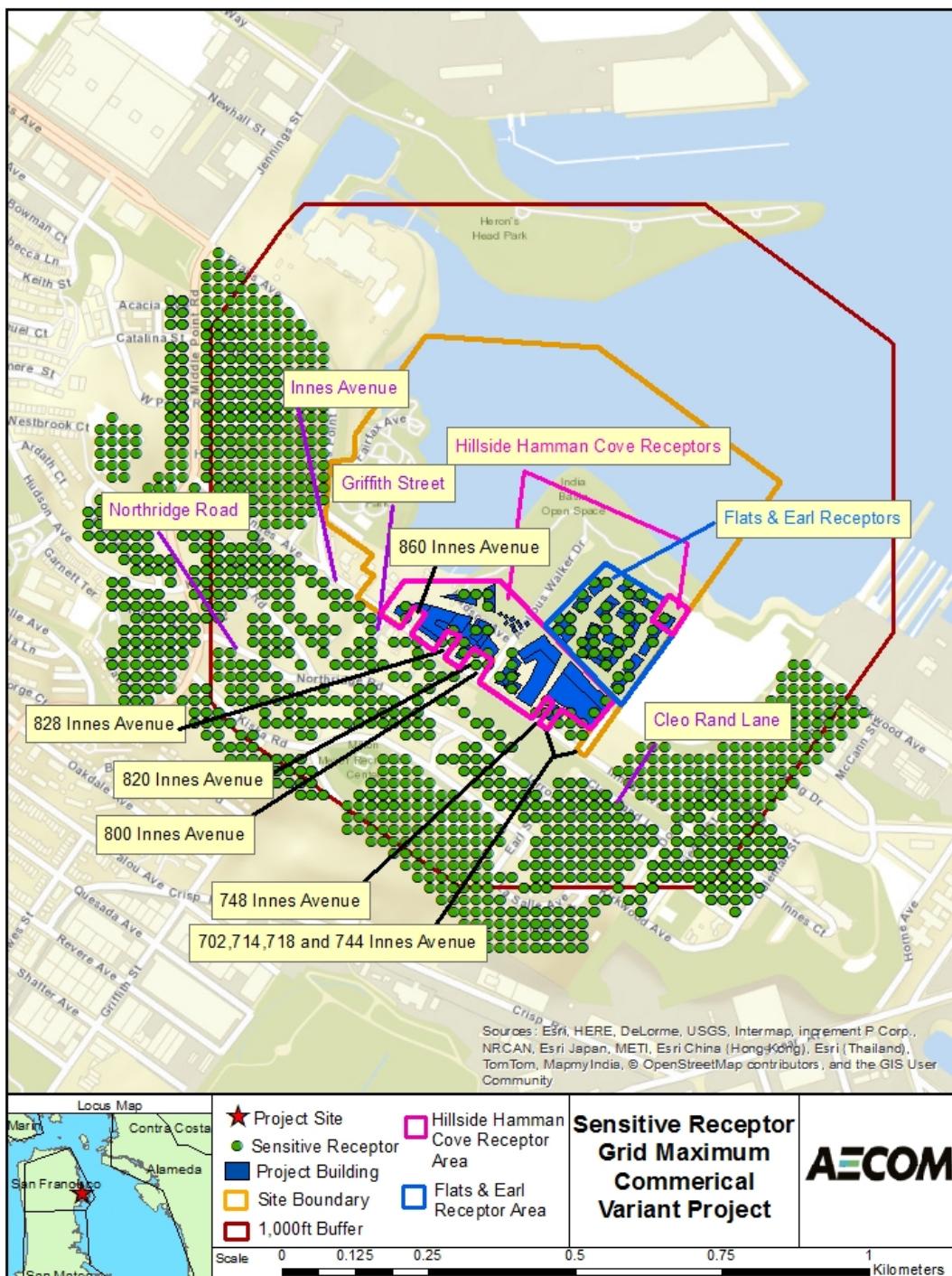
2.0 Emissions Estimates

Construction-related and operational air quality emissions associated with the Residential Project and the Maximum Commercial Variant were quantified according to guidance and methods from BAAQMD, ARB, and EPA. The process for determining the parameters and assumptions used to model these emissions, along with the modeling methods, are described in this section. Emissions were calculated for each year of construction (2018 through 2022) and full operation.

Calculation Methodologies for Construction Emission Sources

Construction under either the Residential Project or the Maximum Commercial Variant would generate emissions of criteria air pollutants, precursors, and TACs (e.g., diesel PM) from a variety of sources, including off-road construction equipment, on-road vehicles, earthmoving activities, and off-gassing from paving activities. Construction emissions are dependent on the following project information:

- schedule and duration of construction phases and subphases (e.g., site clearing, grading, excavation, building construction),

- types and sizes (site acreages and building square footages) of land uses to be developed,

- off-road construction equipment lists and activity schedules,

- volume of construction-related haul-truck traffic,

- volume of construction worker traffic,

- earthmoving activities (e.g., cut/fill, grading), and

- acres of asphalt paving.

Construction of the project is estimated to start in 2018 and take approximately 5 years to complete, with various activities occurring in a sequential manner. Total construction emissions were calculated and were converted from total tons to average pounds per day (lb/day) for each construction phase and subphase. For each month during the construction period, average lb/day for the overlapping construction phases and subphases were totaled to estimate the maximum average daily emissions for the proposed project.

Off-Road Construction Equipment

Off-road construction equipment would generate exhaust-related emissions of criteria air pollutants, precursors, and TACs. To calculate emissions, the number and types of construction equipment required for each construction phase and subphase must be identified. Other parameters needed to quantify construction equipment emissions include hours of operation per day, horsepower, and the load factor for each respective piece of equipment. Pursuant to BAAQMD's guidance, the California Emissions Estimator Model (CalEEMod) was used to estimate emissions resulting from off-road construction equipment.

CalEEMod contains emission factors from ARB's off-road equipment emissions estimator model, OFFROAD. Both EPA and the State of California have set emissions standards for new off-road equipment engines, ranging from Tier 1 to Tier 4. Tier 1 emission standards were phased in between 1996 and 2000, and Tier 4 interim and final emission standards for all new engines were phased in between 2008 and 2015. The emission factors for the engines were based on the fleet average, which includes all tier engines, for the calendar year of the analysis, Default assumptions for the parameters noted above contained in CalEEMod were used to quantify emissions. Default

India Basin Mixed-Use Project

assumptions typically are conservative, providing a reasonable upper boundary for potential construction emissions. The analysis performed used CalEEMod Version 2016.3.1, which was the most current version of the CalEEMod at the time of the analysis.

On-Road Vehicles

On-road construction sources include construction-worker vehicles, haul trucks, material delivery trucks, and on-site work trucks. CalEEMod was used to estimate emissions resulting from on-road vehicles (running exhaust, brake wear, tire wear, and running losses). Haul trips were estimated based on the total volume of soil imported to and exported from the project site. Default assumptions for parameters such as other vehicles, construction worker trips, trip distance, and vehicle type were obtained from CalEEMod. CalEEMod incorporates emission factors from ARB's on-road emissions inventory model, EMission FACtors (EMFAC) 2014 (EMFAC2014).

Off-Gas Emissions of Reactive Organic Gases

Asphalt paving and architectural coating activities during construction would generate off-gas ROG emissions. CalEEMod was used to estimate these off-gas ROG emissions. The data collection process determined the acres of asphalt paving required, which CalEEMod uses to determine associated ROG emissions. For architectural coatings, CalEEMod contains coating application assumptions based on the land use type and square footage of buildings to be constructed. CalEEMod assumes the total surface for painting equals 2.7 times the floor square footage for residential land uses and 2 times the square footage for nonresidential land uses.

In-Water Work

On the IBSP property and in the northwest corner of the IBOS property, a barge may be required for removal and construction of the piers in deeper waters. Air pollutant emissions associated with tugboats, workboats, and other waterborne vessels were quantified using ARB's Harbor Craft Emissions Inventory Database. Hours of operation per day, horsepower, and load factor for each respective piece of equipment were provided by RPD.

SUMMARY OF CONSTRUCTION-RELATED CRITERIA POLLUTANT EMISSIONS

Table 2 presents the sum of the average daily emissions for all properties and construction phases for the Residential Project. **Tables 3** through **6** show average daily construction emissions per construction year for the project properties in the Residential Project. **Table 7** presents the sum of the average daily emissions for all properties and construction phases for the Maximum Commercial Variant. **Tables 8** through **11** show average daily construction emissions per construction year for the Maximum Commercial Variant and the project properties. **Appendix A** contains more detailed information on the emissions estimates and results.

Table 2. Residential Project: Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	37.8	215.7	4.3	4.0
2019	41.2	245.0	5.8	5.4
2020	54.0	140.8	5.7	5.3
2021	50.9	109.0	4.5	4.2
2022	18.3	39.0	1.7	1.6
Maximum Average Daily Construction Emissions (lb/day)	54.0	245.0	5.8	5.4
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases. Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Source: Compiled by AECOM in 2017				

Table 3. Residential Project—India Basin Shoreline Park: Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	3.2	31.8	1.2	1.1
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	3.2	31.8	1.2	1.1
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases. Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Source: Compiled by AECOM in 2017				

Table 4. Residential Project—900 Innes: Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	3.4	29.4	1.5	1.4
2020	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	3.4	29.4	1.5	1.4
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Source: Compiled by AECOM in 2017				

Table 5. Residential Project—India Basin Open Space: Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	1.9	17.1	0.9	0.9
2021	1.9	17.1	0.9	0.9
2022	1.8	14.5	0.7	0.7
Maximum Average Daily Construction Emissions (lb/day)	1.9	17.1	0.9	0.9
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Source: Compiled by AECOM in 2017				

Table 6. Residential Project—700 Innes: Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	37.8	215.7	4.3	4.0
2019	37.8	215.7	4.3	4.0
2020	48.9	91.5	3.5	3.3
2021	48.9	91.5	3.5	3.3
2022	16.5	24.5	1.0	0.9
Maximum Average Daily Construction Emissions (lb/day)	48.9	215.7	4.3	4.0

Notes: NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Source: Compiled by AECOM in 2017

Table 7. Maximum Commercial Variant: Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	33.0	218.8	4.3	4.0
2019	36.4	248.2	5.8	5.4
2020	53.5	150.1	6.0	5.6
2021	50.4	118.4	4.8	4.5
2022	22.6	45.1	2.0	1.9
Maximum Average Daily Construction Emissions (lb/day)	53.5	248.2	6.0	5.6

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Source: Compiled by AECOM in 2017

Table 8. Maximum Commercial Variant—India Basin Shoreline Park:
Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	3.2	31.8	1.2	1.1
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	3.2	31.8	1.2	1.1

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Source: Compiled by AECOM in 2017

Table 9. Maximum Commercial Variant—900 Innes:
Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	3.4	29.4	1.5	1.4
2020	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	3.4	29.4	1.5	1.4

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Source: Compiled by AECOM in 2017

Table 10. Maximum Commercial Variant—India Basin Open Space:
Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	1.9	17.1	0.9	0.9
2021	1.9	17.1	0.9	0.9
2022	1.8	14.5	0.7	0.7
Maximum Average Daily Construction Emissions (lb/day)	1.9	17.1	0.9	0.9
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases. Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Source: Compiled by AECOM in 2017				

Table 11. Maximum Commercial Variant—700 Innes:
Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	33.0	218.8	4.3	4.0
2019	33.0	218.8	4.3	4.0
2020	48.4	100.8	3.8	3.6
2021	48.4	100.8	3.8	3.6
2022	20.8	30.7	1.3	1.2
Maximum Average Daily Construction Emissions (lb/day)	48.4	218.8	4.3	4.0
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases. Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Source: Compiled by AECOM in 2017				

As shown in **Table 2**, the Residential Project would generate maximum average daily emissions of approximately 41.2 pounds (lb) of ROG, 245.0 lb of oxides of nitrogen (NO$_X$), 5.8 lb of PM$_{10}$, and 5.4 lb of PM$_{2.5}$. As shown in **Table 7**, the Maximum Commercial Variant would generate maximum average daily emissions of approximately 36.4 lb of ROG, 248.2 lb of NO$_X$, 4.5 lb of PM$_{10}$, and 4.1 lb of PM$_{2.5}$.

A controlled scenario was analyzed to reduce construction-related emissions. EPA estimates that implementing the federal Tier 4 final engine standards for off-road construction equipment would reduce NO$_X$ and PM emissions more than 90 percent compared to Tier 1, 2, and 3 engines (SCAQMD, 2014).

Tables 12 through **21** summarize the controlled lb/day emissions for each project site property, with summaries of the emissions for the entire project site provided in Tables 12 and 17. **Table 12**

represents the sum of the controlled average daily emissions for all project site properties and construction phases for the Residential Project. **Tables 13** through **16** present average daily construction emissions per construction year for the project properties in the Residential Project. **Table 17** represents the sum of the controlled average daily emissions for all properties and construction phases for the Maximum Commercial Variant. **Tables 18** through 2**1** present average daily construction emissions per construction year for the Maximum Commercial Variant and the project properties.

Table 12. Residential Project: Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM_{10} (exhaust)	$PM_{2.5}$ (exhaust)
2018	31.7	145.7	0.8	0.7
2019	32.4	149.7	0.9	0.8
2020	45.2	53.6	0.5	0.5
2021	44.0	41.6	0.4	0.4
2022	15.3	12.2	0.1	0.1
Maximum Average Daily Construction Emissions (lb/day)	45.2	149.7	0.9	0.8
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; $PM_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM_{10} = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Assumes off-road equipment would have Tier 4 Final engines. Source: Compiled by AECOM in 2017				

Table 13. Residential Project—India Basin Shoreline Park:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM_{10} (exhaust)	$PM_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	1.3	12.1	0.1	0.1
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	1.3	12.1	0.1	0.1
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; $PM_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM_{10} = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Assumes off-road equipment would have Tier 4 Final engines. Source: Compiled by AECOM in 2017				

Table 14. Residential Project—900 Innes:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.7	4.0	0.1	0.1
2020	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	0.7	4.0	0.1	0.1

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Assumes off-road equipment would have Tier 4 Final engines.

Source: Compiled by AECOM in 2017

Table 15. Residential Project—India Basin Open Space:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	0.4	2.0	0.0	0.0
2021	0.4	3.4	0.0	0.0
2022	0.4	3.4	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	0.4	3.4	0.0	0.0

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Assumes off-road equipment would have Tier 4 Final engines.

Source: Compiled by AECOM in 2017

Table 16. Residential Project—700 Innes:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	31.7	145.7	0.8	0.7
2019	31.7	145.7	0.8	0.7
2020	43.5	39.1	0.3	0.3
2021	43.5	39.1	0.3	0.3
2022	14.9	8.8	0.1	0.1
Maximum Average Daily Construction Emissions (lb/day)	43.5	145.7	0.8	0.7

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Assumes off-road equipment would have Tier 4 Final engines.

Source: Compiled by AECOM in 2017

Table 17. Maximum Commercial Variant:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	27.0	149.3	0.8	0.7
2019	27.7	153.3	0.9	0.8
2020	40.6	57.3	0.5	0.5
2021	39.3	45.2	0.4	0.4
2022	15.3	12.3	0.1	0.1
Maximum Average Daily Construction Emissions (lb/day)	40.6	153.3	0.9	0.8

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases

Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.

Assumes off-road equipment would have Tier 4 Final engines.

Source: Compiled by AECOM in 2017

Table 18. Maximum Commercial Variant—India Basin Shoreline Park:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM₁₀ (exhaust)	PM₂.₅ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	1.3	12.1	0.1	0.1
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	1.3	12.1	0.1	0.1
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; $PM_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM_{10} = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases				
Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.				
Assumes off-road equipment would have Tier 4 Final engines.				
Source: Compiled by AECOM in 2017				

Table 19. Maximum Commercial Variant—900 Innes:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM₁₀ (exhaust)	PM₂.₅ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.7	4.0	0.1	0.1
2020	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	0.7	4.0	0.1	0.1
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; $PM_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM_{10} = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases				
Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases.				
Assumes off-road equipment would have Tier 4 Final engines.				
Source: Compiled by AECOM in 2017				

Table 20. Maximum Commercial Variant—India Basin Open Space:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0
2020	0.4	2.0	0.0	0.0
2021	0.4	3.4	0.0	0.0
2022	0.4	3.4	0.0	0.0
Maximum Average Daily Construction Emissions (lb/day)	0.4	3.4	0.0	0.0
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Assumes off-road equipment would have Tier 4 Final engines. Source: Compiled by AECOM in 2017				

Table 21. Maximum Commercial Variant—700 Innes:
Controlled Average Daily Construction Emissions (lb/day)

Construction Year/Phase	ROG	NOx	PM$_{10}$ (exhaust)	PM$_{2.5}$ (exhaust)
2018	27.0	149.3	0.8	0.7
2019	27.0	149.3	0.8	0.7
2020	38.8	42.8	0.4	0.3
2021	38.8	42.8	0.4	0.3
2022	14.9	8.9	0.1	0.1
Maximum Average Daily Construction Emissions (lb/day)	38.8	149.3	0.8	0.7
Notes: lb/day = pounds per day; NOx = oxides of nitrogen; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM$_{10}$ = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases Maximum average daily emissions represent the greatest emissions that would occur over the entire construction period based on the overlapping construction phases and subphases. Assumes off-road equipment would have Tier 4 Final engines. Source: Compiled by AECOM in 2017				

Calculation Methodologies for Operational Emission Sources

After construction of the Residential Project or the Maximum Commercial Variant, long-term operations would generate emissions of criteria air pollutants, precursors, and TACs (i.e., diesel PM) from a variety of stationary, area, and mobile sources.

Stationary Sources

AECOM assumes that under either project option, emergency generators would be installed and used in residential and commercial buildings. These emergency generators would generate emissions of criteria pollutants and TACs. Based on information provided by RPD and BUILD, AECOM assumes

that the Residential Project and the Maximum Commercial Variant would utilize up to eight emergency generators (stacks). There would be four locations per option, with each location containing two emergency generators. **Figures 3** and **4** show the proposed locations of the emergency generators under the proposed Residential Project and the Maximum Commercial Variant, respectively.

Table 22 details the proposed size and manufacturer of each emergency generator under each project scenario. AECOM used emission factors and methods prescribed by ARB and EPA (e.g., AP-42, Compilation of Air Pollutant Emission Factors) to estimate emissions from these sources. Each emergency generator is assumed to meet a minimum of Tier 2 emission standards (before control measures) when they are installed in 2019–2020, and to comply with BAAQMD Regulation 2, Rule 5, New Source Review for Toxic Air Contaminants. Each emergency generator is assumed to comply with BAAQMD testing limits of no more than 50 hours per year.

Table 22
Proposed Emergency Generators

Unit	Residential Project	Maximum Commercial Variant
Emergency Generator 1	500 hp	600 hp
Emergency Generator 2	500 hp	600 hp
Emergency Generator 3	300 hp	300 hp
Emergency Generator 4	300 hp	300 hp
Emergency Generator 5	500 hp	600 hp
Emergency Generator 6	500 hp	600 hp
Emergency Generator 7	300 hp	300 hp
Emergency Generator 8	300 hp	300 hp
Total	**3,200 hp**	**3,600 hp**
Note: hp = horsepower Source: Compiled by AECOM in 2017.		

Area Sources

CalEEMod Version 2016.3.1 was used to estimate long-term operational area-source emissions of criteria pollutants and precursors under both scenarios. Area-source emissions include consumer products, landscape maintenance equipment, and natural gas combustion. Emissions from landscape maintenance equipment and natural gas combustion were estimated using CalEEMod default values based on the size and type of land uses to be developed. Based on consultation between the Planning Department's Environmental Planning Division and BAAQMD (Wietgrefe, pers. comm., 2014), emissions from consumer products were estimated using an ROG emissions factor of 0.0000151 lb per sq. ft.-day. This emission factor is based on San Francisco ROG emissions data and land use data.

Mobile Sources

Mobile-source emissions under each project scenario were calculated using vehicle miles traveled (VMT) results from CalEEMod and then compared with the daily per capita VMT estimates from the Transportation Impact Study prepared for the project (San Francisco, 2017). The CalEEMod emissions estimates account for variation in the number of trips for weekend travel, where the

Transportation Impact Study output estimate is a weekday trip estimate. In addition, CalEEMod appropriately assigns trips and VMT to the correct proposed land uses (including the recreational and school uses) and property, whereas the Transportation Impact Study VMT estimates are based on an overall summary of residential, office, and retail land uses only. The annualized Transportation Impact Study VMT estimates are lower than the CalEEMod-estimated VMT but are within a reasonable range of using different models, therefore using the CalEEMod-estimated VMT for the emissions estimates is the conservative approach that this AQTR has utilized. As described for construction on-road vehicles, CalEEMod Version 2016.3.1 incorporates EMFAC2014 mobile-source emission factors.

Figure 3: Locations of Emergency Generators Associated with the Residential Projec

Figure 4: Locations of Emergency Generators Associated with the Maximum Commercial Variant

SUMMARY OF OPERATIONAL CRITERIA POLLUTANT EMISSIONS

Tables 23 and **24** present daily operational emissions associated with the Residential Project and the Maximum Commercial Variant, respectively. **Tables 25** through **30** summarize the $PM_{2.5}$ and TAC emissions used in the dispersion modeling analyses. **Appendix A** contains more detailed information on the emissions estimates and results.

Table 23. Residential Project: Operational Emissions (lb/day)

	ROG	NOx	PM_{10}	$PM_{2.5}$
Area	63.05	0.94	3.37	3.37
Energy	0.56	4.88	0.39	0.39
Mobile	14.21	49.69	31.30	8.72
Stationary	0.97	6.69	0.15	0.15
Waste	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00
Average Daily Emissions (lb/day)	78.79	62.21	35.20	12.62

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; $PM_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM_{10} = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases
Source: Compiled by AECOM in 2017.

Table 24. Maximum Commercial Variant: Operational Emissions (lb/day)

	ROG	NOx	PM_{10}	$PM_{2.5}$
Area	50.97	0.38	1.36	1.36
Energy	0.71	6.37	0.49	0.49
Mobile	25.30	83.20	43.23	12.15
Stationary	1.06	7.30	0.16	0.16
Waste	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00
Average Daily Emissions (lb/day)	78.04	97.25	45.24	14.15

Notes: lb/day = pounds per day; NOx = oxides of nitrogen; $PM_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; PM_{10} = particulate matter with aerodynamic diameter less than 10 microns; ROG = reactive organic gases
Source: Compiled by AECOM in 2017.

Table 25. Total Operational PM$_{2.5}$ Annual Emissions—2021 and 2022 (Residential Project)

Sources	Tier 2 PM$_{2.5}$ Exhaust (tpy)	Tier 4 PM$_{2.5}$ Total (tpy)
Emergency Generator 1	0.003	0.0003
Emergency Generator 2	0.003	0.0003
Emergency Generator 3	0.002	0.0002
Emergency Generator 5	0.003	0.0003
Emergency Generator 6	0.003	0.0003
Emergency Generator 7	0.002	0.0002
Notes: PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; tpy = tons per year Six of eight generators would be operational when Phase 1 is completed. Source: Compiled by AECOM in 2017.		

Table 26. Total Operational PM$_{2.5}$ Annual Emissions—2021 and 2022 (Maximum Commercial Variant)

Sources	Tier 2 PM$_{2.5}$ Exhaust (tpy)	Tier 4 PM$_{2.5}$ Total (tpy)
Emergency Generator 1	0.004	0.0004
Emergency Generator 2	0.004	0.0004
Emergency Generator 3	0.002	0.0002
Emergency Generator 5	0.004	0.0004
Emergency Generator 6	0.004	0.0004
Emergency Generator 7	0.002	0.0002
Notes: PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; tpy = tons per year Six of eight generators would be operational when Phase 1 is completed. Source: Compiled by AECOM in 2017.		

Table 27. Total Operational PM$_{2.5}$ Annual Emissions—Residential Project

Sources	PM$_{2.5}$ Brake Wear and Tire Wear (tpy)	Tier 2 PM$_{2.5}$ Exhaust (tpy)	Tier 2 PM$_{2.5}$ Total (tpy)	Tier 4 PM$_{2.5}$ Exhaust (tpy)	Tier 4 PM$_{2.5}$ Total (tpy)
Emergency Generator 1	–	0.003	0.003	0.0003	0.0003
Emergency Generator 2	–	0.003	0.003	0.0003	0.0003
Emergency Generator 3	–	0.002	0.002	0.0002	0.0002
Emergency Generator 4	–	0.002	0.002	0.0002	0.0002
Emergency Generator 5	–	0.003	0.003	0.0003	0.0003
Emergency Generator 6	–	0.003	0.003	0.0003	0.0003
Emergency Generator 7	–	0.002	0.002	0.0002	0.0002
Emergency Generator 8	–	0.002	0.002	0.0002	0.0002
Roads	0.307	0.015	0.322	0.015	0.322

Notes: PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; tpy = tons per year
Source: Compiled by AECOM in 2017.

Table 28. Total Operational PM$_{2.5}$ Annual Emissions—Maximum Commercial Variant

Sources	PM$_{2.5}$ Brake Wear and Tire Wear (tpy)	Tier 2 PM$_{2.5}$ Exhaust (tpy)	Tier 2 PM$_{2.5}$ Total (tpy)	Tier 4 PM$_{2.5}$ Exhaust (tpy)	Tier 4 PM$_{2.5}$ Total (tpy)
Emergency Generator 1	–	0.004	0.004	0.0004	0.0004
Emergency Generator 2	–	0.004	0.004	0.0004	0.0004
Emergency Generator 3	–	0.002	0.002	0.0002	0.0002
Emergency Generator 4	–	0.002	0.002	0.0002	0.0002
Emergency Generator 5	–	0.004	0.004	0.0004	0.0004
Emergency Generator 6	–	0.004	0.004	0.0004	0.0004
Emergency Generator 7	–	0.002	0.002	0.0002	0.0002
Emergency Generator 8	–	0.002	0.002	0.0002	0.0002
Roads	0.463	0.028	0.491	0.028	0.491

Notes: PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; tpy = tons per year
Source: Compiled by AECOM in 2017.

**Table 29. Total Operational Annual Emissions of Toxic Air Contaminants—
Residential Project**

Sources	ROG (lb/yr)	Tier 2 Engine Diesel PM (lb/yr)	Tier 4 Engine Diesel PM (lb/yr)
Emergency Generator 1	–	6.035	0.6035
Emergency Generator 2	–	6.035	0.6035
Emergency Generator 3	–	3.621	0.3621
Emergency Generator 4	–	3.621	0.3621
Emergency Generator 5	–	6.035	0.6035
Emergency Generator 6	–	6.035	0.6035
Emergency Generator 7	–	3.621	0.3621
Emergency Generator 8	–	3.621	0.3621
Roads	980.48	1.98	1.98
Notes: lb/yr = pounds per year; PM = particulate matter; ROG = reactive organic gases Source: Compiled by AECOM in 2017.			

**Table 30. Total Operational Annual Emissions of Toxic Air Contaminants—
Maximum Commercial Variant**

Sources	ROG (lb/yr)	Tier 2 Engine Diesel PM (lb/yr)	Tier 4 Engine Diesel PM (lb/yr)
Emergency Generator 1	–	7.242	0.7242
Emergency Generator 2	–	7.242	0.7242
Emergency Generator 3	–	3.621	0.3621
Emergency Generator 4	–	3.621	0.3621
Emergency Generator 5	–	7.242	0.7242
Emergency Generator 6	–	7.242	0.7242
Emergency Generator 7	–	3.621	0.3621
Emergency Generator 8	–	3.621	0.3621
Roads	1910.1	3.238	3.238
Notes: lb/yr = pounds per year; PM = particulate matter; ROG = reactive organic gases Source: Compiled by AECOM in 2017.			

3.0 Air Dispersion Modeling

Consistent with the Community Risk Reduction Plan (CRRP) health risk assessment (HRA), the air toxics analysis evaluated health risks and $PM_{2.5}$ concentrations imposed by the Residential Project and the Maximum Commercial Variant on the surrounding community per year of construction and under full operational conditions. The American Meteorological Society/EPA Regulatory Model (AERMOD) dispersion model (Version 16216) was used to estimate pollutant concentrations at specific distances from emission sources using 1 year (2008) of hourly meteorological data from the Mission Bay station, consistent with the CRRP-HRA.

Terrain elevations were obtained from commercially available digital terrain elevations developed by the U.S. Geological Survey by using its National Elevation Dataset (NED). The NED data provide terrain elevations with 1-meter vertical resolution and 10-meter (1/3 arc-second) horizontal resolution based on a Universal Transverse Mercator (UTM) coordinate system. The U.S. Geological Survey specifies coordinates in North American Datum 83, UTM Zone 10. Lakes Environmental software was used to process the NED data and assign elevations to the receptor locations and sources.

Receptor Locations

Receptor locations for on-site and off-site receptors under the Residential Project and the Maximum Commercial Variant are shown in **Figures 1** and **2**, respectively. The receptors were assigned a flagpole height of 1.8 meters for the ground-level residences; for each floor in the multilevel residential locations, 3 meters were added to this flagpole height to represent each floor above ground level. Consistent with the CRRP-HRA, a grid of receptors with 20-meter spacing was modeled for submittal to the Planning Department's Environmental Planning Division for updating the CRRP geodatabase. This grid matches what was used for the CRRP-HRA over the proposed project site and surrounding area. Further information regarding exposure scenarios evaluated for these receptor locations is provided in **Section 4.0**, "Health Risk Analysis."

Construction Sources

Off-road construction equipment was represented by area sources. The locations of the area sources vary by construction phase. Excavation and rough and fine grading were represented by an area source of the same footprint as the project site. For construction of the project buildings, multiple area sources were located over areas of the project site where buildings are proposed to be built in 2018 through 2022. To account for potential turbulent mixing that can occur with exhaust releases by construction equipment, an initial vertical dimension of 1.4 meters for each area source was used consistent with the CRRP-HRA.

On-road emissions from construction worker vehicles, haul trucks, material delivery trucks, and on-site work trucks traveling to and from the project site were modeled as adjacent volume sources. To be consistent with the CRRP-HRA, the release height of these sources was set to 2 meters and the initial vertical dimension was set to 2.3 meters. The initial lateral dimensions vary depending on roadway width. Based on consultation with Fehr & Peers, the route modeled for the on-road traffic extended from the project site to the northwest along Innes Avenue to Hunters Point Boulevard and Evans Avenue. On-road traffic within 1,000 feet of the project site was modeled. **Figure 5** illustrates the on-road vehicle route modeled for project construction. The modeling parameters for the area and roadway sources are summarized in **Appendix B**.

Construction is anticipated to occur Monday through Saturday from 7 a.m. to 8 p.m. (4,056 hours per year); therefore, those hours were modeled in AERMOD using the EMISFACT HRDOW keywords. For the Residential Project and the Maximum Commercial Variant, this includes construction diesel PM and $PM_{2.5}$ emissions.

Figure 5: On-Road Vehicle Route (Construction Phase)

AECOM

Operational Sources

Under both the Residential Project and the Maximum Commercial Variant, operational emission sources evaluated in the dispersion modeling included on-road vehicles and emergency generators. AECOM modeled the on-road emissions from operational vehicles associated with the project site as adjacent volume sources. To be consistent with the CRRP-HRA, the release height of these sources was set to 2 meters and the initial vertical dimension was set to 2.3 meters. The initial lateral dimensions vary depending on roadway width. Project-generated on-road traffic within 1,000 feet of the project site was modeled. The source parameters are summarized in **Appendix B**. Based on consultation with Fehr & Peers, the route modeled for the on-road traffic extended from the project site west to Jennings Street, south to Kiska Road/Kirkwood Avenue, and east to Coleman Street. **Figure 6** illustrates the on-road vehicles routes modeled for project operation. AECOM used the EMFAC Gasoline Total Organic Gases Speciation to model TACs from nondiesel vehicles as shown in **Table 31**.

Table 31
Proposed EMFAC Gasoline Total Organic Gases Speciation

Toxic Compounds	EMFAC Gasoline TOG Speciation (% of TOG)
Acetaldehyde	0.28%
Acrolein	0.13%
Benzene	2.47%
1,3-Butadiene	0.55%
Ethylbenzene	1.05%
Formaldehyde	1.58%
Hexane	1.60%
Methanol	0.12%
Methyl Ethyl Ketone	0.02%
Naphthalene	0.05%
Propylene	3.06%
Styrene	0.12%
Toluene	5.76%
Xylenes	4.80%
Notes: EMFAC = Emission FACtors; TOG = total organic gases Source: BAAQMD, 2012c.	

Figure 6: On-Road Vehicle Routes (Operational Phase)

AECOM assumed that operational emissions under either project scenario would include the operation of up to eight emergency generators. These sources were modeled as point sources, with stack height equal to 1 meter above the nearest building height. Other stack parameters include the values presented in **Table 32**, consistent with the CRRP-HRA.

Table 32
Proposed Emergency Generator Default Stack Parameters

Stack Parameter	Default Value
Stack Height[1]	1 m above nearest building height
Stack Diameter[2]	0.183 m (0.6 ft)
Stack Temperature[2]	739.8°K (872°F)
Stack Velocity[2]	45.33 m/sec (8,923 ft/min)
Notes: °F = degrees Fahrenheit; °K = degrees Kelvin; ft = feet; ft/min = feet per minute; m = meter; m/sec = meters per second [1] Source: Compiled by AECOM in 2016 [2] Source: SFDPH, 2012	

For each variant, a total $PM_{2.5}$ concentration was estimated by adding these project contributions to the CRRP background concentrations. This was evaluated using the CRRP existing (2014) and future-year (2040) background impacts.

Concurrent Nearby Construction Projects. The nearby PG&E Hunters Point Shoreline Area Cleanup is more than 95 percent complete as of November 2016, and the area is being used for small events under the NOW Hunters Point program. Future uses have yet to be determined and were not assessed as part of this analysis. The Hunters Point Shipyard Phase 1 and 2 redevelopment will include residential units at the corner of Innes Avenue and Donahue Street, as well as the Hillside area (Navy Road/Block 48), and along Donahue Street (Block 55E) toward the Bay. The portion of Block 48 located within 1,000 feet of the proposed project is scheduled to be completed in May 2017 (Phase 1A) and December 2017 (Phase 1B). Additional construction in Block 48 would be beyond 1,000 feet of the proposed project. Block 1 and a portion of Block 55E will be located within 1,000 feet of the proposed project and, as of November 2016, had yet to be built. It is anticipated that construction may overlap with the proposed project. Under Hunters Point Shipyard Phase 2, Northside Park Parcels 1 and 2, HP-01, 2, and 3 will all be built during Major Phase 1 during 2017 through 2022 and would overlap with the proposed project. Environ conducted an air quality assessment as part of an update to that environmental impact report (EIR) in 2013. Ramboll Environ provided electronic files associated with the Hunters Point Phase 1 and 2 construction modeling. AECOM added the annual $PM_{2.5}$ values calculated in those analyses to the equivalent receptors for each overlapping construction year associated with the proposed project.

DISPERSION MODELING RESULTS

Results of the annual $PM_{2.5}$ modeling analysis using the uncontrolled emissions are summarized in **Tables 33 through 35.** Isopleth (concentration) maps for the Existing $PM_{2.5}$ Conditions (CRRP-HRA [2012, 2016b]), Baseline Conditions (Existing conditions plus the Hunters Point construction impacts), and the Project Conditions for the 2019 construction year (the year of greatest construction impact) are presented in **Figures 7** through **10**. For years 2018 through 2020, the maximum concentrations due to uncontrolled construction emissions are located at off-site receptors. For the years 2021 and 2022, the maximum concentrations due to uncontrolled construction emissions are located at on-site receptors in Hamman Hillside Cove that would be occupied after Phase I is complete. For the

operations scenario, the maximum modeled concentration is located at an on-site receptor. **Figures 11** and **12** show the Baseline plus Project Conditions for the 2019 construction year.

Table 33. Maximum Project Conditions (Uncontrolled) Modeled PM$_{2.5}$ Annual Concentrations

Year	X (UTM)	Y (UTM)	Residential Project (µg/m^3)	X (UTM)	Y (UTM)	Maximum Commercial Variant (µg/m^3)
2018[1]	555120	4176220	1.4	555120	4176220	1.3
2019[2]	555100	4176220	2.5	555100	4176220	2.2
2020[3]	555100	4176220	1.4	555100	4176220	1.1
2021[4,5]	555480	4176260	1.1	555480	4176260	1.1
2022[4,5]	555480	4176260	0.5	555480	4176260	0.5
Operations[6]	555180	4176200	1.6	555180	4176200	2.4

Notes: µg/m^3 = micrograms per cubic meter; UTM = Universal Transverse Mercator
1. Maximum concentrations attributable primarily to grading (50%) and 700 Innes uncontrolled construction sources at an off-site receptor.
2. Maximum concentrations attributable primarily to 700 Innes uncontrolled construction sources (75%) at an off-site receptor.
3. Maximum concentrations attributable primarily to 700 Innes (80%) uncontrolled construction sources at an off-site receptor.
4. Maximum concentrations attributable primarily to 700 Innes (90%) uncontrolled construction sources at an on-site receptor.
5. Assumes six of the eight emergency generators (Tier 2) would be operating after the completion of Phase 1 construction.
6. Maximum concentrations attributable to vehicle traffic at on-site receptor.
Source: Compiled by AECOM in 2017.

**Table 34. Baseline Plus Project Conditions
(Uncontrolled) Maximum Modeled Construction PM$_{2.5}$ Annual Concentrations**

Year	Residential Project (µg/m^3)	Maximum Commercial Variant (µg/m^3)
Existing Conditions (CRRP-HRA [2014])[1]	8.2	8.2
Project Construction[2]	2.5	2.2
Concurrent Projects[3]	0.2	0.2
Total PM$_{2.5}$	10.8	10.6

Notes: µg/m^3 = micrograms per cubic meter; CRRP = Community Risk Reduction Plan; HRA = health risk assessment; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; UTM = Universal Transverse Mercator
1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).
2. Based on 2019 construction PM$_{2.5}$ annual concentrations using uncontrolled construction equipment at an off-site receptor. Receptor location: X (UTM) = 555100, Y (UTM) = 4176220.
3. Concurrent construction projects at Hunters Point and Candlestick Point areas.
Source: Compiled by AECOM in 2017.

**Table 35. Cumulative Plus Project Conditions
(Uncontrolled) Maximum Modeled PM$_{2.5}$ Annual Concentrations**

Year	Residential Project (µg/m^3)	Maximum Commercial Variant (µg/m^3)
Cumulative Conditions (CRRP-HRA [2040])[1]	8.3	8.3
Project Operations[2]	1.6	2.4
Cumulative PM$_{2.5}$ Total	9.9	10.7
Notes: µg/m^3 = micrograms per cubic meter; CRRP = Community Risk Reduction Plan; HRA = health risk assessment; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; UTM = Universal Transverse Mercator [1] Community Risk Reduction Plan health risk assessment for Year 2040 (Cumulative Conditions). Includes Hunters Point and Candlestick Point area project traffic. [2] Maximum concentrations attributable to vehicle traffic (tire and brake wear) at an on-site receptor. Receptor location: X (UTM) = 555200, Y (UTM) = 4176160. Source: Compiled by AECOM in 2017.		

BAAQMD regulates backup emergency generators, fire pumps, and other sources of TACs through its New Source Review (Regulation 2, Rule 5) permitting process. Although emergency generators are intended to be used only during power outages, each generator must be tested monthly. However, BAAQMD limits testing to no more than 50 hours per year. It is assumed in this analysis that the backup diesel generators would meet or exceed the emission standards for Tier 4–certified engines. **Table 36** shows the results of the project-conditions PM$_{2.5}$ modeling analysis using all control measures cited in Section 2.0. The years 2018 and 2019 include most of the haul truck trips associated with the project. The results of cumulative plus project conditions modeling did not change with the addition of control measures (Tier 4 engines for the emergency generators), as this impact is attributable to vehicle traffic (~94% from tire and brake wear and ~6% from vehicle exhaust based on EMFAC2014 emission factors). **Figures 13** and **14** show the Baseline plus Project Conditions for the 2019 construction year using control measures.

Figures 15 through 17 show the Cumulative Conditions (CRRP-HRA Year 2040) PM$_{2.5}$ concentrations in the project area and the Cumulative plus Project Conditions.

Table 36. Maximum Project Conditions (Controlled) Modeled PM$_{2.5}$ Annual Concentrations

Year	X (UTM)	Y (UTM)	Residential Project (µg/m^3)	X (UTM)	Y (UTM)	Maximum Commercial Variant (µg/m^3)
2018[1]	555100	4176220	0.5	555100	4176220	0.5
2019[2]	555100	4176220	1.1	555100	4176220	1.0
2020[3]	554880	4176440	0.8	554880	4176440	0.6
2021[4,5]	554880	4176440	0.3	554880	4176440	0.3
2022[4,5]	554880	4176440	0.2	554880	4176440	0.2
Operations[6]	555180	4176200	1.6	555180	4176200	2.4

Notes: µg/m^3 = micrograms per cubic meter; CRRP = Community Risk Reduction Plan; HRA = health risk assessment; PM$_{2.5}$ = particulate matter with aerodynamic diameter less than 2.5 microns; UTM = Universal Transverse Mercator

[1]. Maximum concentrations attributable primarily to grading (50%) and 700 Innes construction sources/haul truck trips (Tier 4 final off-road engines) at an off-site receptor.

[2]. Maximum concentrations attributable primarily to 700 Innes construction sources/haul truck trips (75%) (Tier 4 final off-road engines) at an off-site receptor.

[3]. Maximum concentrations attributable primarily to 700 Innes (80%) construction sources/haul truck trips (Tier 4 final off-road engines) at an off-site receptor.

[4]. Maximum concentrations attributable primarily to 700 Innes (90%) construction sources (Tier 4 final off-road engines) at an off-site receptor.

[5]. Assumes six of the eight emergency generators (Tier 2) would be operating after the completion of Phase 1 construction. Assumes Tier 4 diesel engines for the emergency generators.

[6]. Maximum concentrations attributable to vehicle traffic at on-site receptor.

[7]. Assumes Tier 4 diesel engines for the emergency generators.

Source: Compiled by AECOM in 2017.

Figure 7: Existing Conditions (CRRP-HRA [2014]) PM$_{2.5}$ Annual Concentrations

Figure 8: Baseline Conditions (CRRP-HRA [2014] plus Hunters Point) Maximum Modeled PM$_{2.5}$ Annual Concentrations

PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 8.6 [ug/m^3] at (554740.00, 4176860.00)

| 8.2 | 8.3 | 8.4 | 8.5 |
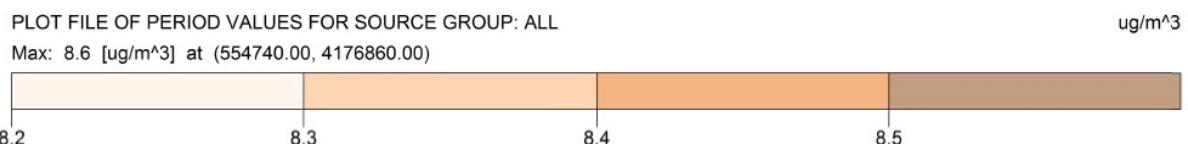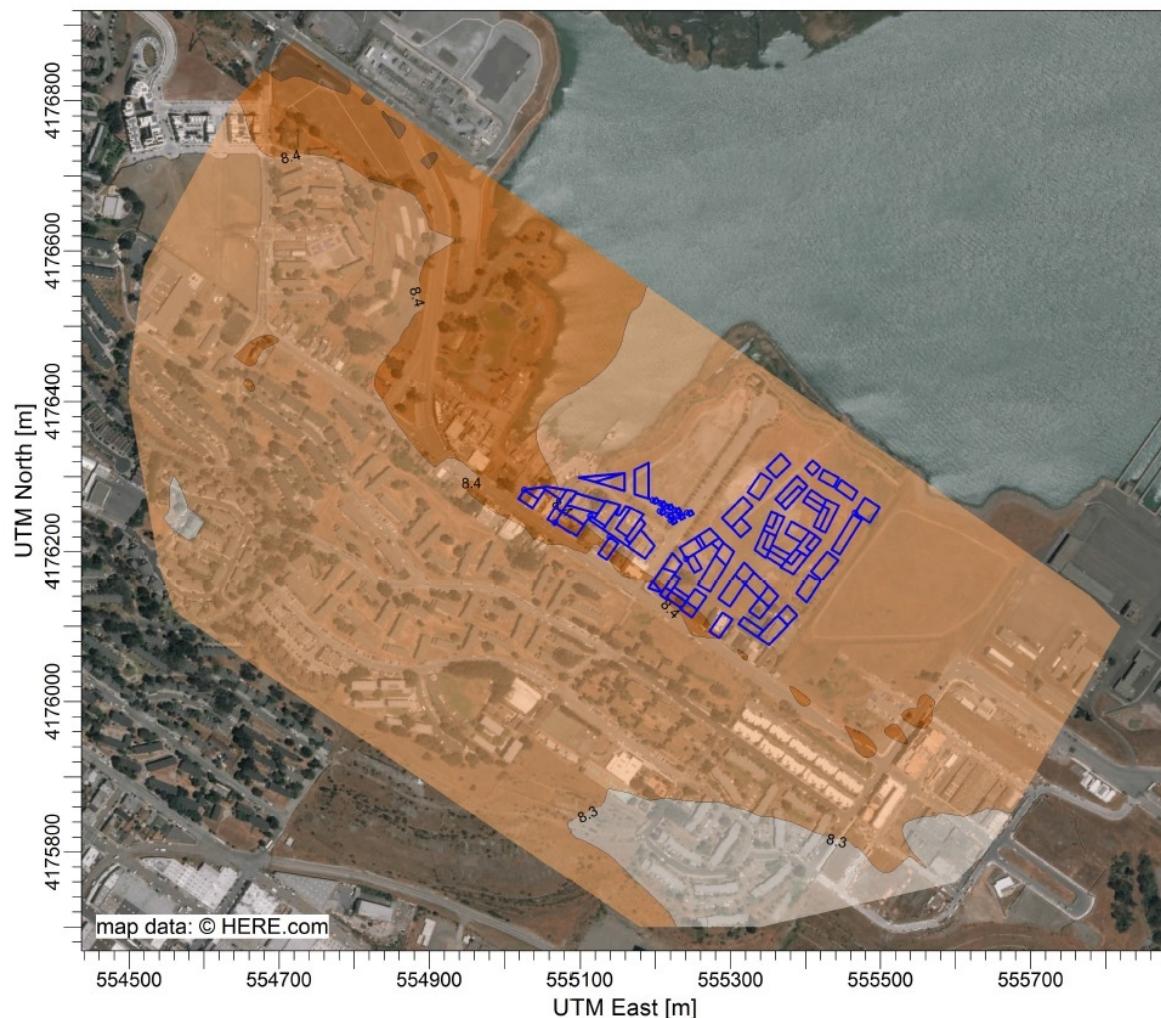
Figure 9: Residential Project Conditions (Uncontrolled) Maximum Modeled PM$_{2.5}$ Annual Concentrations for 2019 Construction Year

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL   ug/m^3

Max: 2.5 [ug/m^3] at (555100.00, 4176220.00)
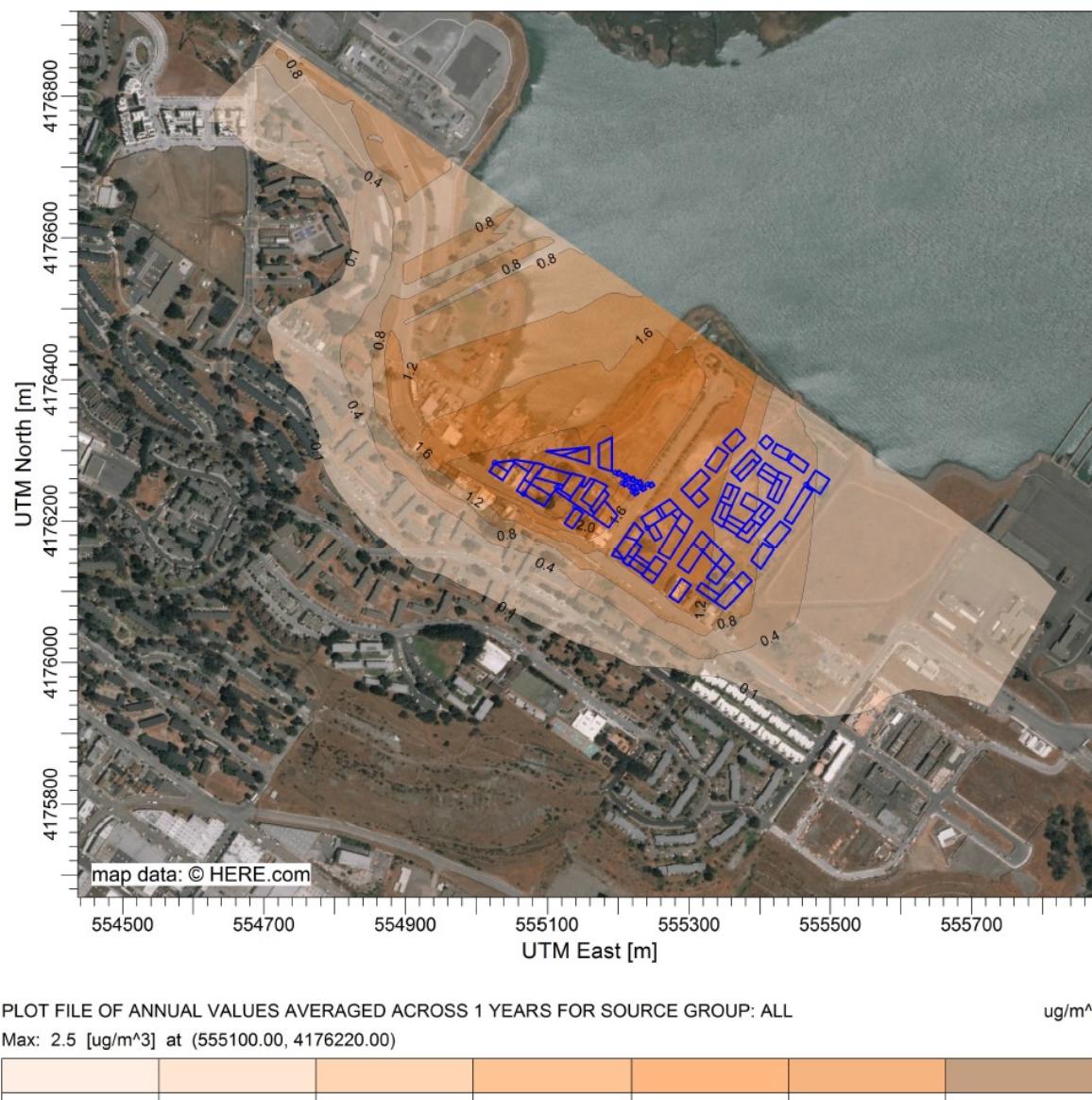
Figure 10: Maximum Commercial Variant Project Conditions (Uncontrolled) Maximum Modeled PM$_{2.5}$ Annual Concentrations for 2019 Construction Year
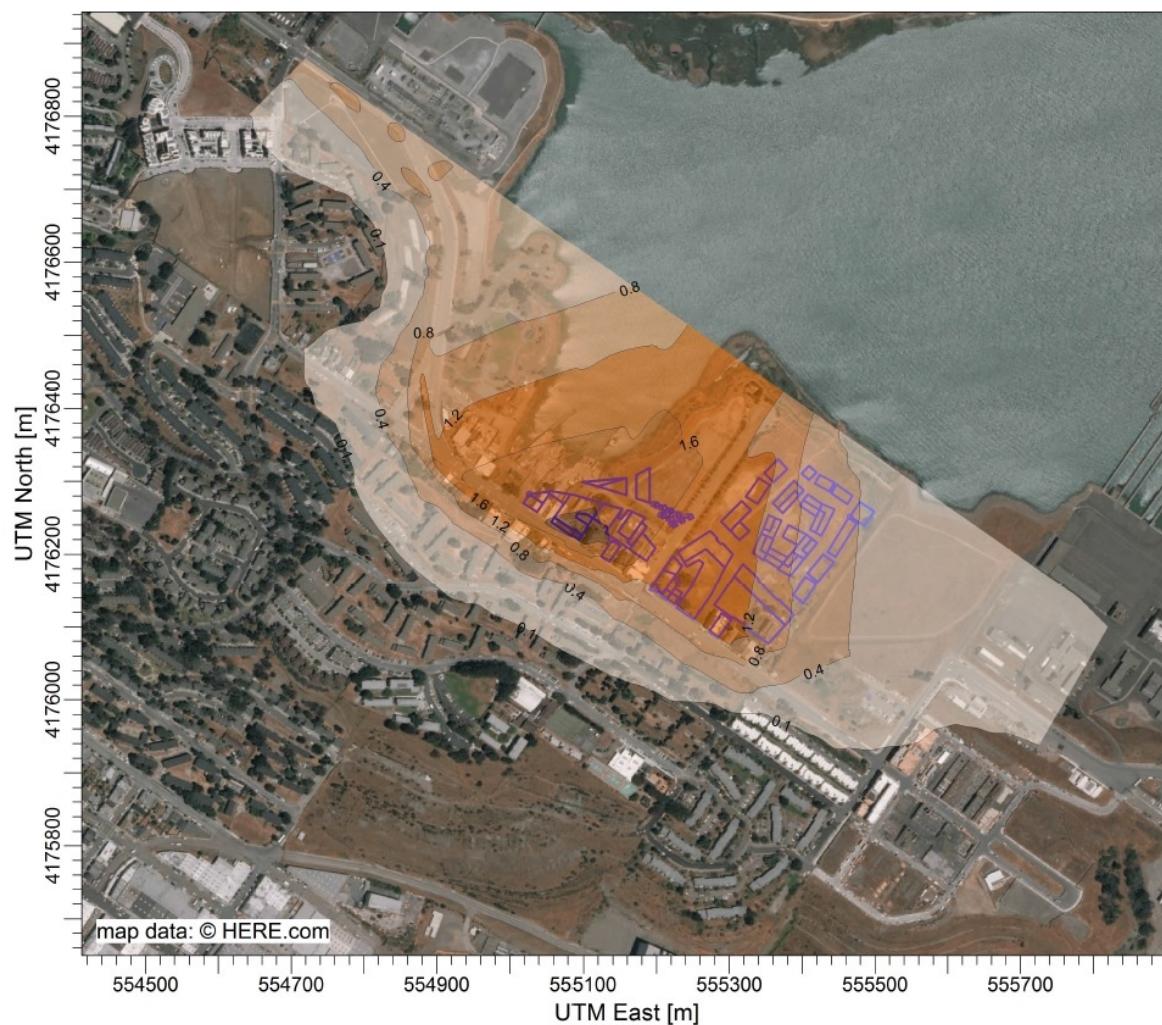
PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL   ug/m^3

Max: 2.2 [ug/m^3] at (555100.00, 4176220.00)

Figure 11: Baseline plus Residential Project (Uncontrolled) Maximum Modeled PM$_{2.5}$ Annual Concentrations for 2019 Construction Year
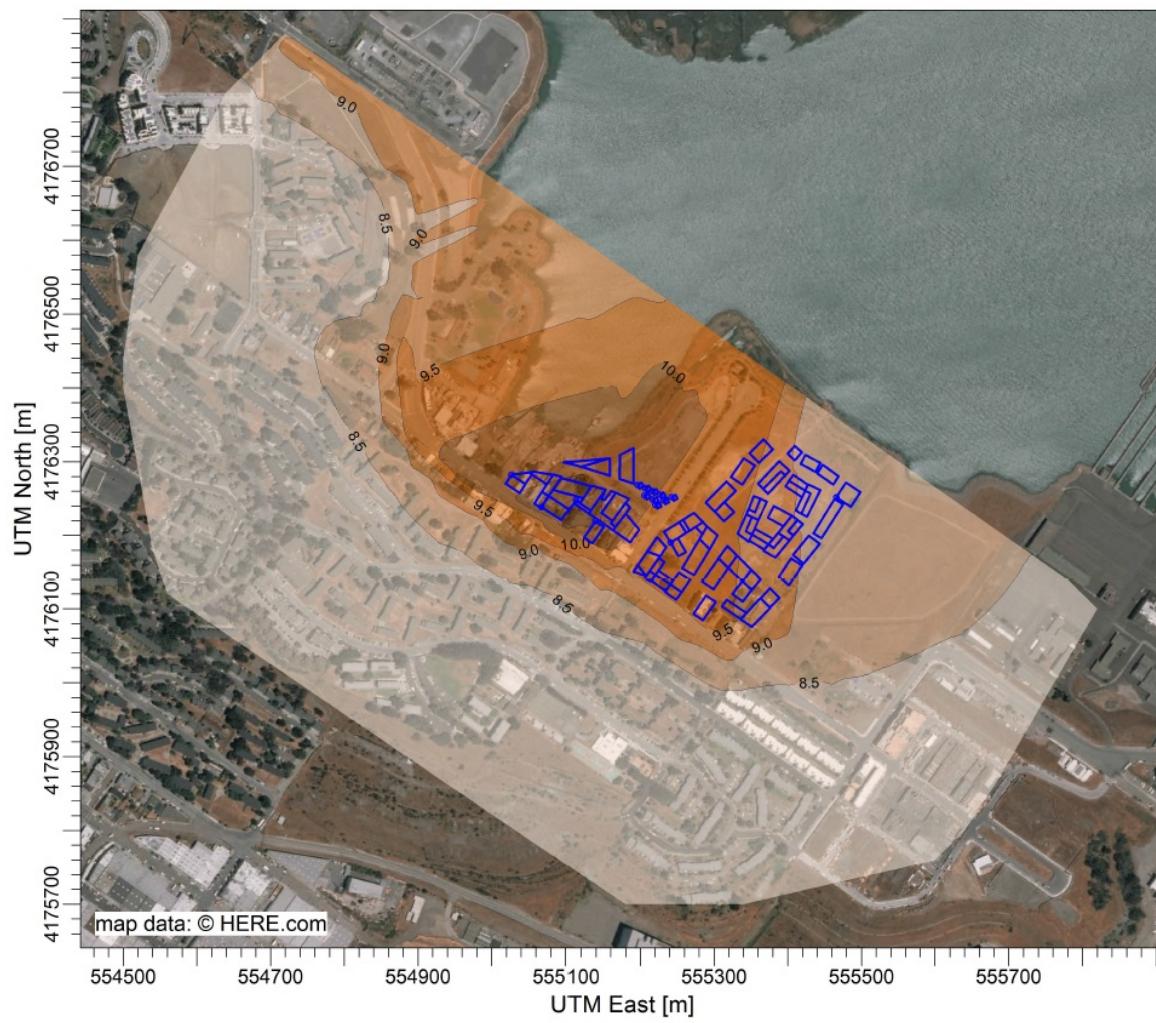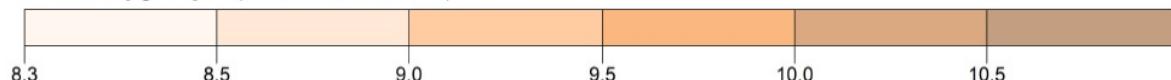
Figure 12: Baseline Plus Maximum (Uncontrolled) Commercial Variant Maximum Modeled PM$_{2.5}$ Annual Concentrations for 2019 Construction Year
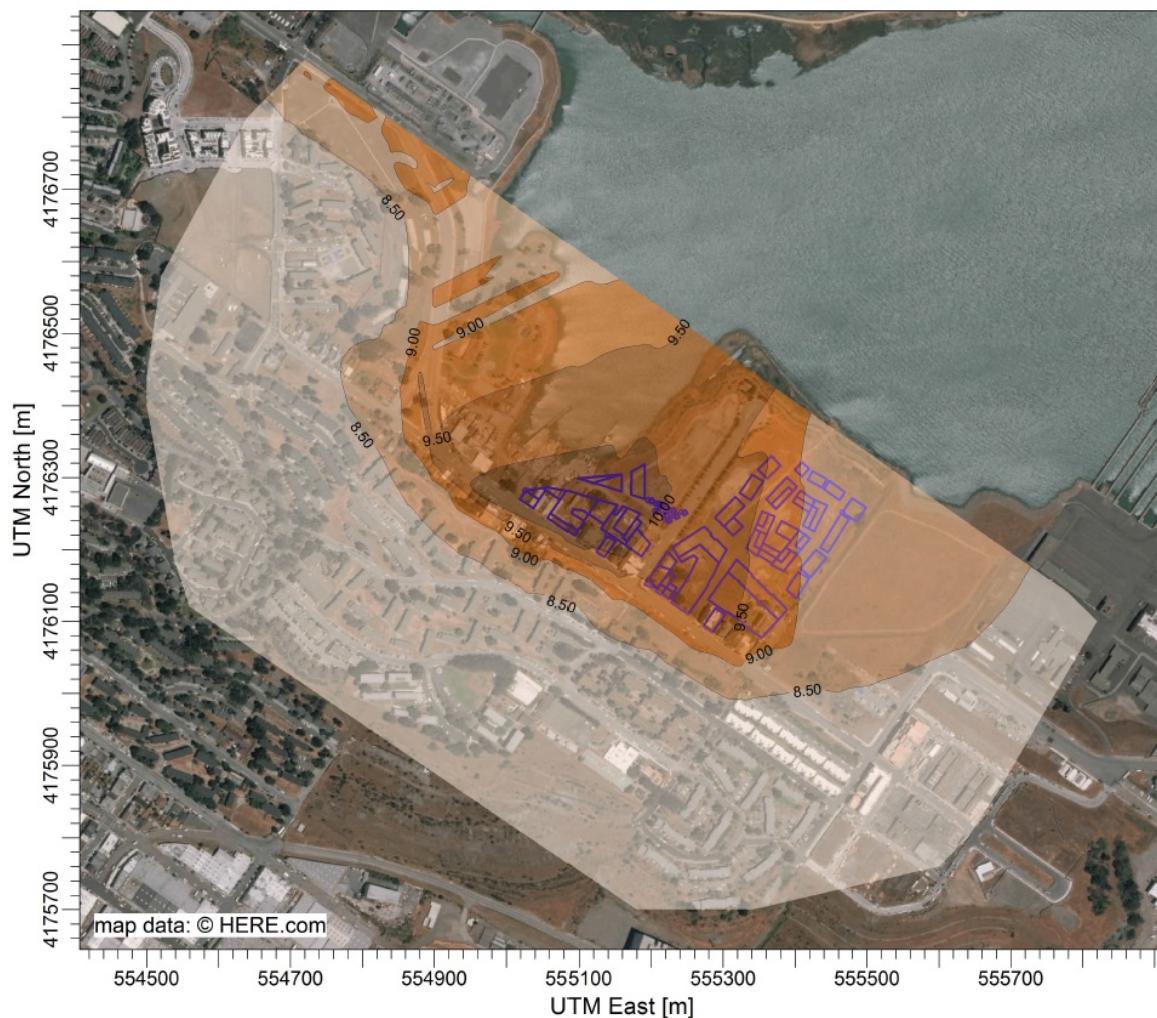
Figure 13: Baseline plus Residential Project Maximum (Controlled) Modeled PM$_{2.5}$ Annual Concentrations for 2019 Construction Year
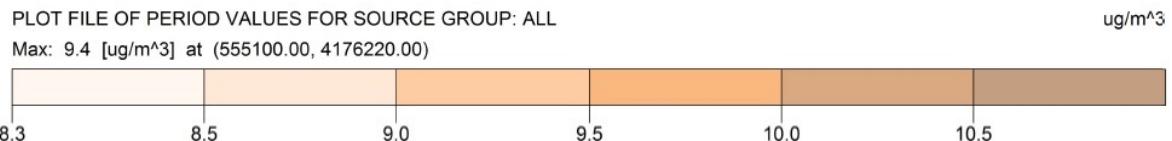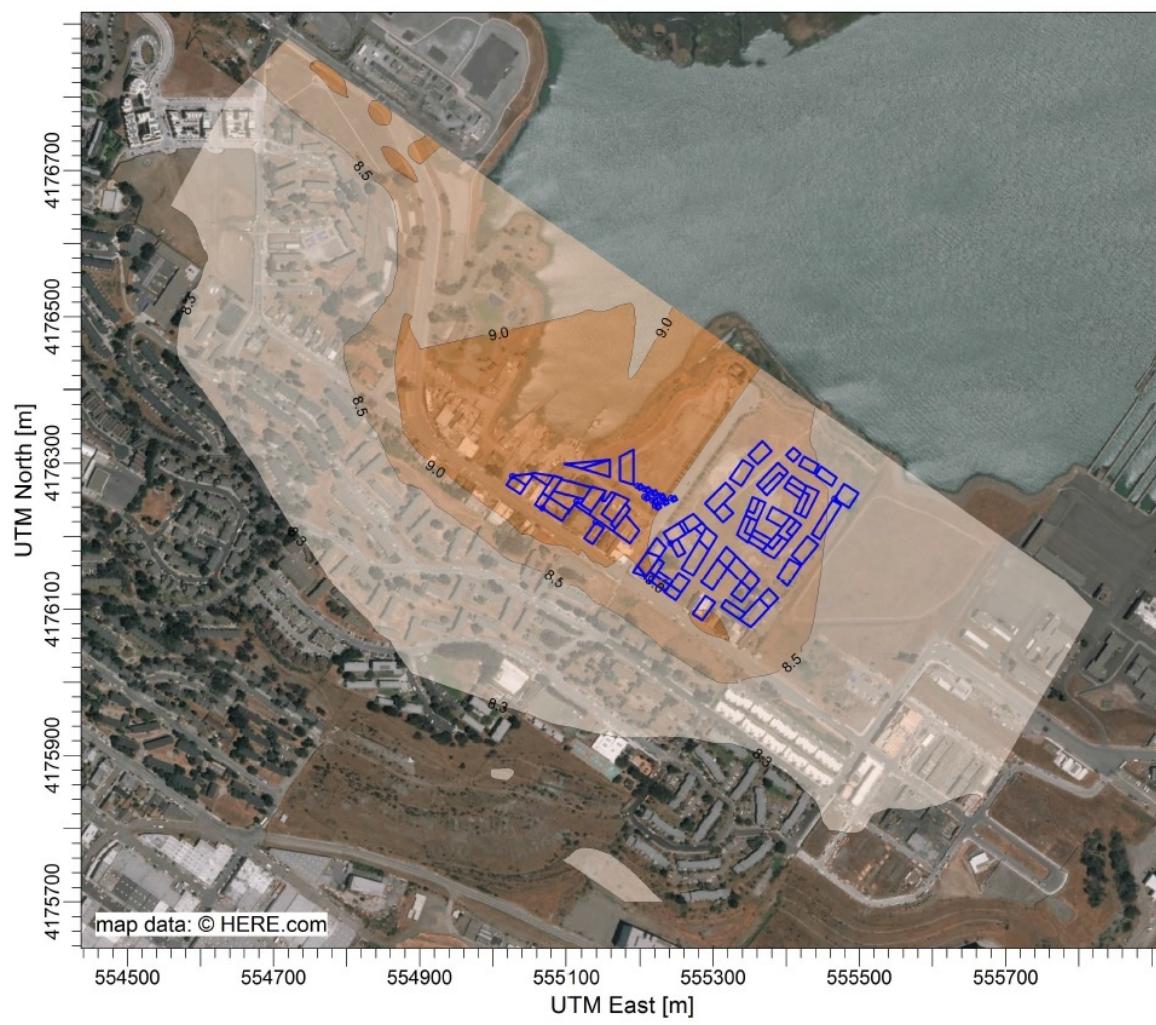
Figure 14: Baseline Plus Maximum Commercial Variant Maximum Modeled PM$_{2.5}$ Annual Concentrations (Controlled) for 2019 Construction Year
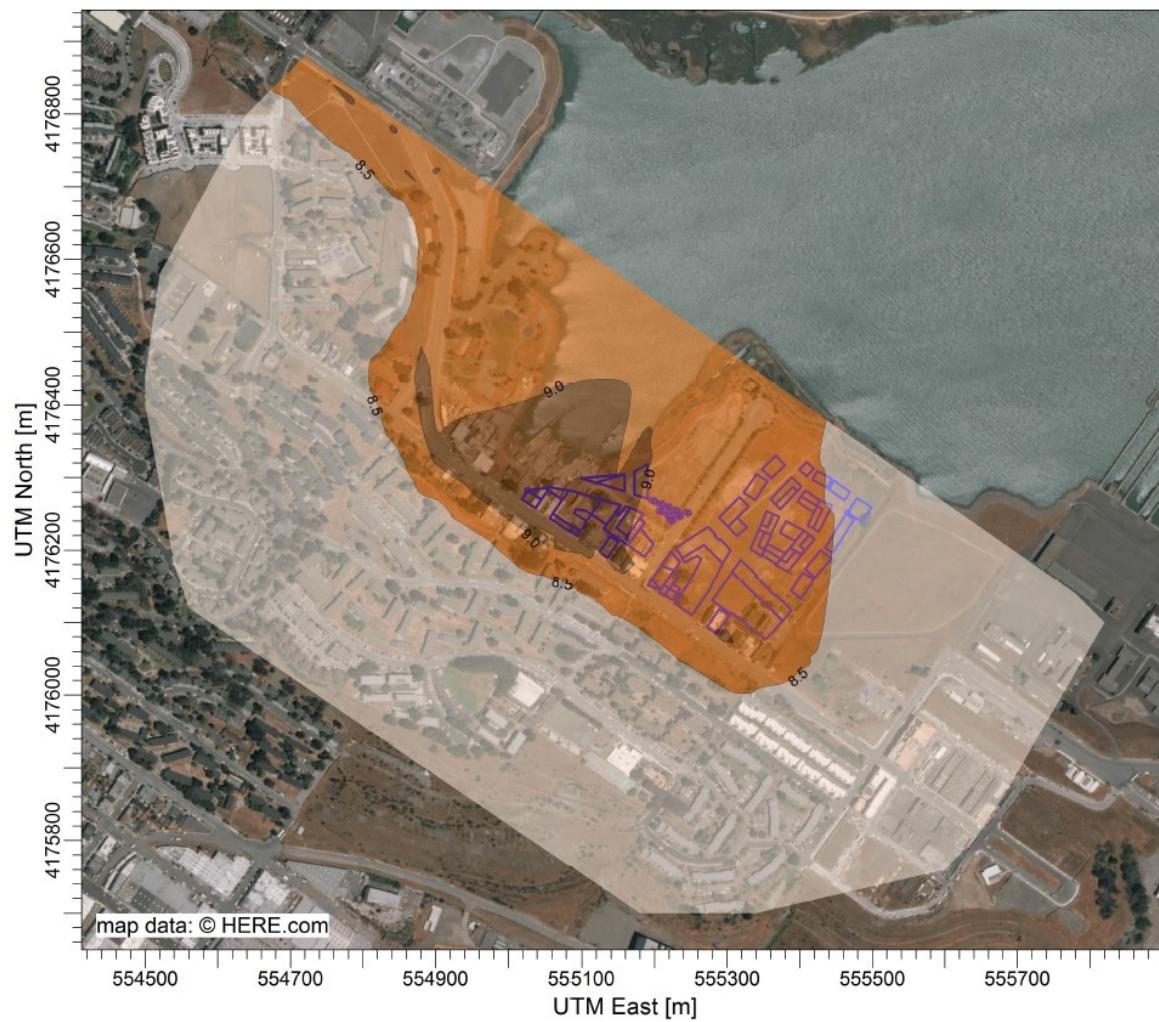
PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL

Max: 9.3 [ug/m^3] at (555100.00, 4176220.00)

ug/m^3

Figure 15: Cumulative Conditions (CRRP-HRA [2040]) PM$_{2.5}$ Annual Concentrations

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL   ug/m^3

Max: 8.5 [ug/m^3] at (554720.00, 4176860.00)
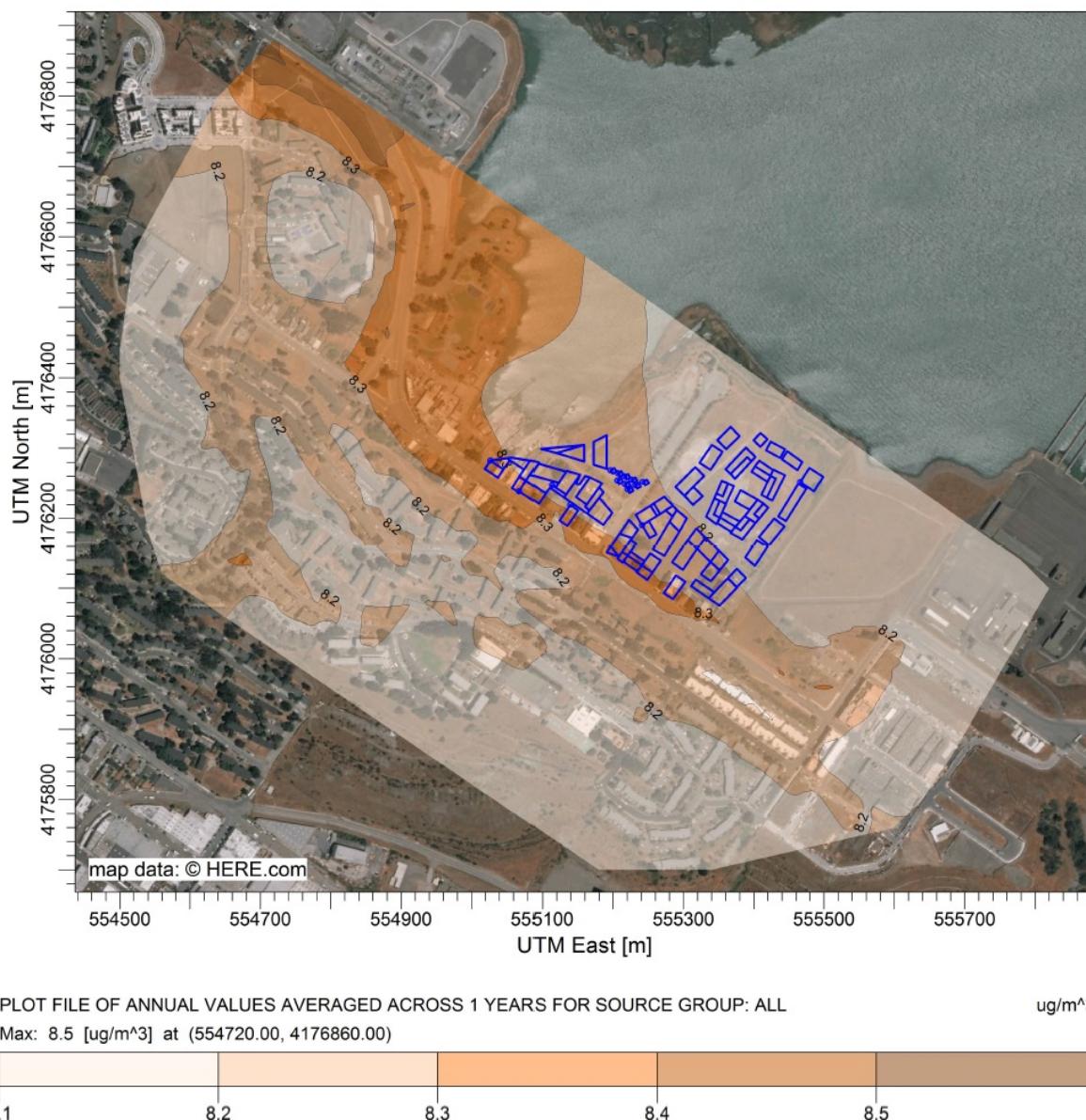
Figure 16: Cumulative Conditions (CRRP-HRA [2040]) Plus Project Conditions for Residential Project Maximum (Controlled) Modeled PM$_{2.5}$ Annual Concentrations
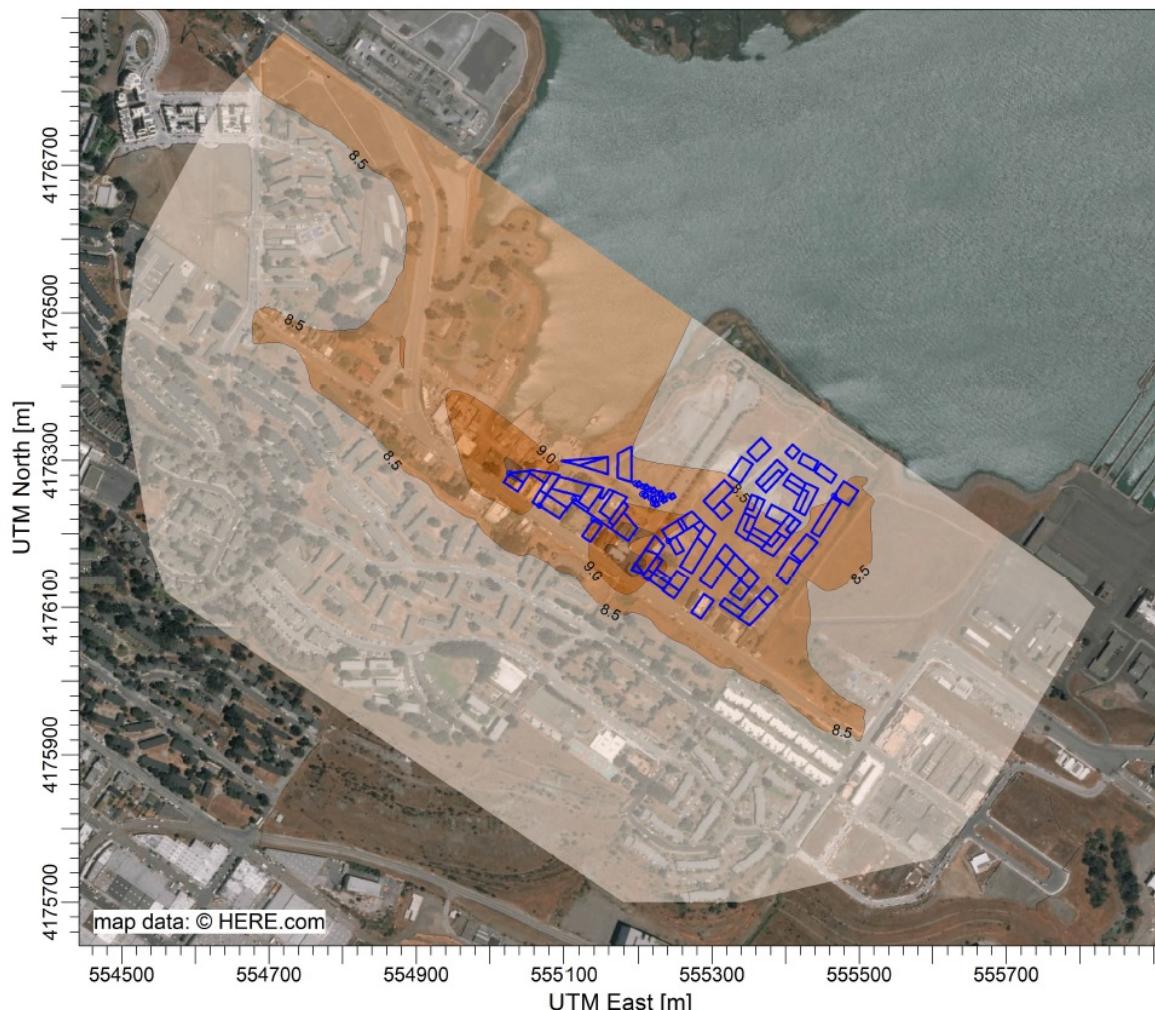
PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL   ug/m^3

Max: 9.9 [ug/m^3] at (555200.00, 4176160.00)

8.1   8.5   9.0   9.5
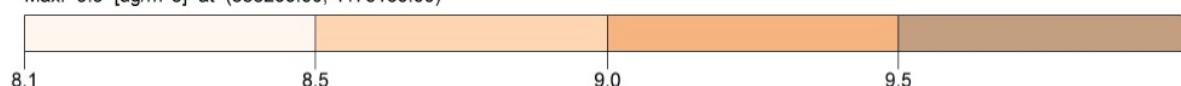
Figure 17: Cumulative Conditions (CRRP-HRA [2040]) Plus Project Conditions for Maximum Commercial Variant Maximum (Controlled) Modeled PM$_{2.5}$ Annual Concentrations
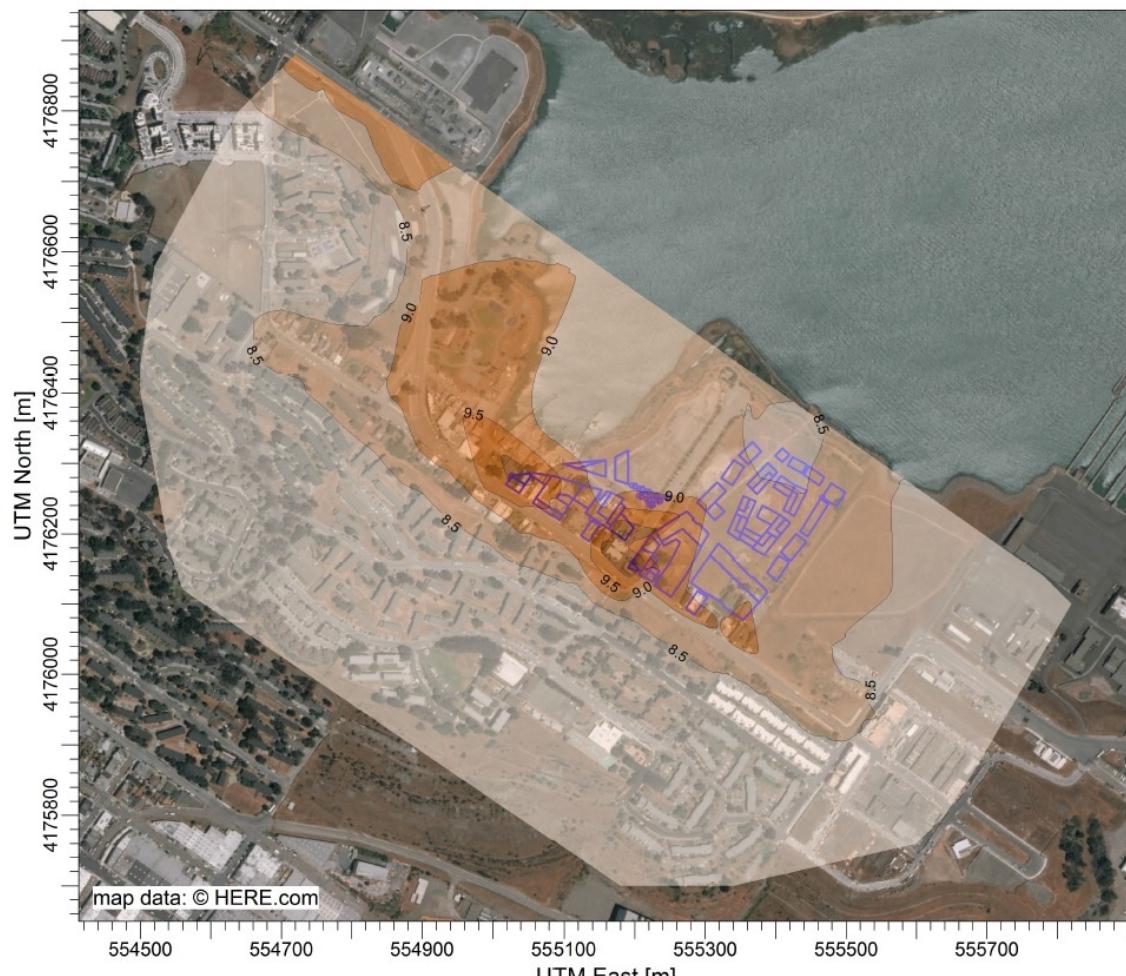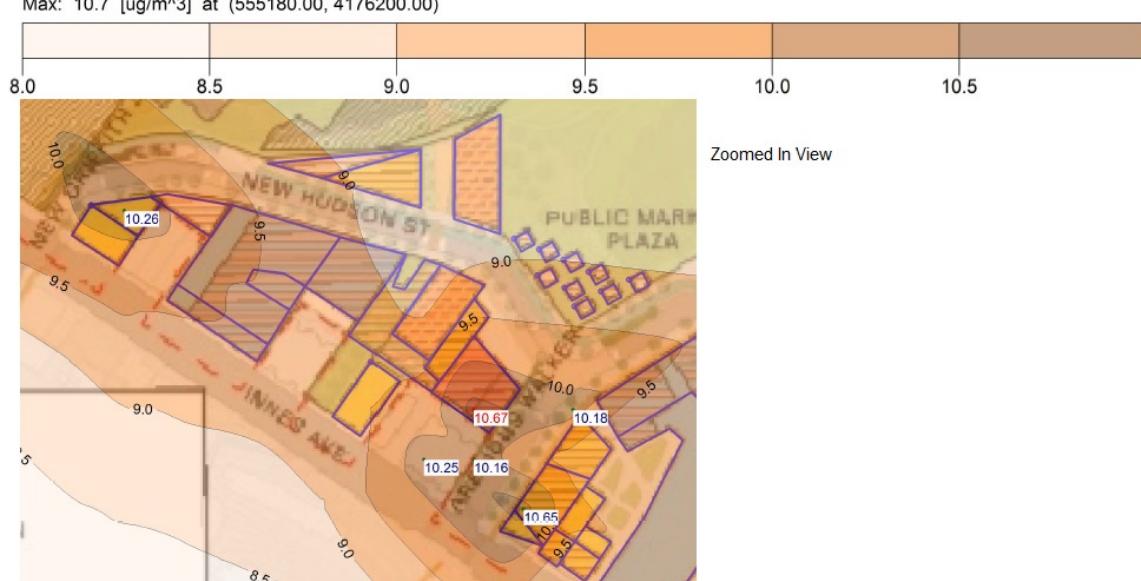
4.0 Health Risk Analysis

Pollutant Concentrations

AERMOD was run using unit emissions. Each source was modeled assuming emissions of 1 gram per second (g/s) for point sources, 1 g/s divided by the number of volume sources in a road segment, or 1 g/s divided by the area source in square meters. The unitized AERMOD results for each source are output in $\mu g/m^3$ per g/s $[(\mu g/m^3)(g/s)^{-1}]$. Maximum hourly and period-average plot files generated by AERMOD as described above were input to HARP2 with corresponding TAC emission rates for each phase of construction as well as the project operational emissions to calculate project concentration contributions. These concentrations were then used to estimate the long-term effects of TACs on nearby and future on-site residential locations.

Receptor Exposure and Health Risk Calculations

Exposure factors were used to calculate dose associated with exposure to the estimated unit concentration results obtained using AERMOD. ARB created the HARP2 software to assist in the development of emissions inventories, dispersion modeling, and risk assessment. For this project, HARP2 was used solely to estimate cancer risk via HARP2's Air Dispersion Modeling and Risk Tool (ADMRT), Version 16217; ADMRT was developed to encapsulate the exposure factors and guidance of the 2015 OEHHA Health Risk Assessment (OEHHA, 2015). AECOM evaluated the 30-year cancer risk for resident receptors through the inhalation, soil ingestion, mother's milk, and homegrown produce pathways, using the OEHHA-Derived Method. Factors that affect the dose that a receptor would receive include but are not limited to age-specific daily breathing rates as well as exposure time, frequencies, and duration. The general formula for calculating residential inhalation risk is as follows:

$$RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$$

Where:
$RISK_{inh-res}$	= Residential inhalation cancer risk
$DOSE_{air}$	= Daily inhalation dose (milligrams per kilogram [mg/kg]-day)
CPF	= Inhalation cancer potency factor (mg/kg-day^{-1})
ASF	= Age sensitivity factor for a specified age group (unitless)
ED	= Exposure duration (in years) for a specified age group
AT	= Averaging time for lifetime cancer risk (years)
FAH	= Fraction of time spent at home (unitless)

The inhalation risk was calculated in HARP2 using the OEHHA 2015–recommended default values for these parameters:

CPF	= Substance-specific
ASF	= 10 for third trimester to age 2, 3 for ages 2–16, 1 for ages 16–30
ED	= 0.25 year for third trimester, 2 years for ages 0–2, 7 years for ages 2–9, 14 years for ages 2–16, 14 years for ages 16–30
AT	= 70 years
FAH	= 1.0 (no adjustment)

The daily inhalation dose is defined as:

$$DOSE_{air} = C_{air} \times \{BR/BW\} \times A \times EF \times 10^{-6}$$

Where:

$DOSE_{air}$	= Dose through inhalation (mg/kg-day)
C_{air}	= Concentration in air ($\mu g/m^3$)
$\{BR/BW\}$	= Daily breathing rate normalized to body weight (Liters per kilogram body weight - day)
A	= Inhalation absorption factor (unitless)
EF	= Exposure frequency (unitless), days/365 days
10^{-6}	= Micrograms to milligrams conversion, liters to cubic meters conversion

The daily inhalation dose was calculated in HARP2 using OEHHA 2015–recommended default values for these parameters:

C_{air}	= Concentration as calculated from AERMOD
$\{BR/BW\}$	= OEHHA-derived method (i.e., 95th-percentile) estimates (361 for third trimester, 1,090 for ages 0–2, 745 for ages 2–16, 335 for ages 16–30)
A	= 1
EF	= 0.96 (350 days/365 days in a year for a resident)

Although the use of AERMOD and HARP2 strays from 2012 BAAQMD guidance, these programs represent the most advanced model/tool used to assess risk in the State of California, per ARB and OEHHA. Note that the CRRP-HRA was conducted in 2012, and used the methods and recommendations from OEHHA's 2009 technical support documents and 2011 updated health risk values, which represented the most up-to-date guidance and recommendations at that time. HARP2 is based on the OEHHA 2015 guidance, which incorporates these previous OEHHA documents. Nevertheless, the OEHHA 2015 guidance does contain some recommendations and updates that were not included in the 2011 and 2009 OEHHA resources. Therefore, the risk values in the CRRP-HRA database were scaled to reflect these changes in methodology. Based on consultation with the Planning Department's Environmental Planning Division, a scaling factor of 1.3744 was used to update the background risks contained in the CRRP-HRA database.

Health Risk Standards and Limits

Health risk modeling was also used as the basis for approving a series of amendments to the San Francisco Building and Health Codes, generally referred to as the Enhanced Ventilation Required for Urban Infill Sensitive Use Developments or Health Code, Article 38 (Ordinance 224-14, effective December 8, 2014) (Article 38). The purpose of Article 38 is to protect the public health and welfare by establishing an APEZ and imposing an enhanced ventilation requirement for all urban infill sensitive-use development within the APEZ. In addition, projects in the APEZ require special consideration to determine whether project activities would add substantial emissions to areas already adversely affected by poor air quality.

The APEZ was also used as the basis for approving a series of amendments to the San Francisco Environment and Administrative Codes, generally referred to as the Clean Construction Ordinance, or Environment Code Section 25 (Ordinance 28-15, effective April 19, 2015). The purpose of the Clean Construction Ordinance is to protect the public health, safety, and welfare by requiring contractors on City and County of San Francisco public works projects to reduce diesel and other PM emissions generated by construction activities. The APEZ for San Francisco is based on the health-protective $PM_{2.5}$ standard, as supported by EPA's Particulate Matter Policy Assessment. As noted in Section 1.0, the project area is not located in an APEZ, as the area is currently below the thresholds of 10 $\mu g/m^3$ of $PM_{2.5}$ and 100-in-a-million excess cancer risk.

SUMMARY OF HEALTH RISKS AND MODELING RESULTS

Health risks to both off-site and on-site receptors were calculated for both project construction scenarios. Risks to existing off-site receptors were calculated assuming exposure during each year of the entire construction period. For future on-site receptors, AECOM assumed that these receptors would be occupied after the first phase of construction, and therefore would be on-site for the remainder of the construction period.

For each scenario, a total 30-year excess cancer risk was presented by adding the construction risks to the operational risk at each receptor. Cumulative risks were estimated by adding these project contributions to the CRRP-HRA background risks, with a scaling factor applied as discussed previously. This was evaluated using the CRRP-HRA existing (2014) and future-year (2040) background impacts.

Concurrent Nearby Construction Projects. As discussed previously, the nearby PG&E Hunters Point Shoreline Area Cleanup is being used for small events under the NOW Hunters Point program. Future uses have yet to be determined and were not assessed as part of this analysis. It is anticipated that construction of the Hunters Point Shipyard Phase 1 and 2 redevelopment may overlap with the proposed project. Environ conducted an air quality assessment as part of an update to that EIR in 2013. Ramboll Environ provided electronic files associated with the Hunters Point Phase 1 and 2 modeling. AECOM added the excess cancer risk calculated in those analyses for each overlapping construction year. For Cumulative Conditions (CRRP-HRA [2040]), vehicle traffic associated with the Hunters Point and Candlestick Point redevelopment projects was included in the analysis. Therefore, only the Project Conditions were added to the Cumulative Conditions.

The excess cancer risks attributable to uncontrolled construction sources from project conditions are depicted in **Tables 37** through **39. Figures 18** through **23** illustrate isopleths of the maximum excess cancer risk (Existing Conditions, Baseline Conditions [Existing Conditions plus concurrent projects], Project Conditions, and Baseline Conditions plus Project Conditions) noted in **Tables 37** through **39** for each modeled scenario. Project conditions attributable to uncontrolled construction sources would create a new APEZ if control measures were not implemented. **Table 40** summarizes the Cumulative Conditions (CRRP-HRA [2040]) excess cancer risk with the Project Conditions (uncontrolled).

Table 37. Project Conditions (Uncontrolled) Maximum Modeled Excess Cancer Risk Concentrations at Existing Off-Site Residential Receptors

Year	Years of Age	Residential Project (in a million)[9]	Maximum Commercial Variant (in a million)[9]
Existing Conditions (CRRP-HRA [2014])[1]	–	21.7	21.7
2018[2]	Third trimester to 1	42.2	39.0
2019[3]	1–2	79.0	69.5
2020[4]	2–3	10.2	8.4
2021[5,6]	3–4	1.7	1.7
2022[5,6]	4–5	0.69	0.7
Operations[7]	5–30 (25 years)	4.0	6.1
Concurrent Projects[8]	30	0.7	0.7
Total Excess Cancer Risk	30	160.2	147.8

Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator
1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).
2. Maximum concentrations attributable primarily to grading (50%) and 700 Innes construction sources.
3. Maximum concentrations attributable primarily to 700 Innes construction sources (75%).
4. Maximum concentrations attributable primarily to 700 Innes (80%) construction sources.
5. Maximum concentrations attributable primarily to 700 Innes construction sources.
6. Assumes six of the eight emergency generators would be operating after the completion of Phase 1 construction.
7. Maximum concentrations attributable primarily to 700 Innes sources (traffic).
8. Hunters Point and Candlestick Point area construction excess cancer risk. Provided by Ramboll Environ.
9. Receptor location: X (UTM) = 555120, Y (UTM) = 4176220.
Source: Compiled by AECOM in 2017.

Table 38. Project Conditions (Uncontrolled) Maximum Modeled Excess Cancer Risk Concentrations at On-Site (Hillside–Hamman Cove) Residential Receptors

Year	Years of Age	Residential Project (in a million)[5]	Maximum Commercial Variant (in a million)[5]
Existing Conditions (CRRP-HRA [2014])[1]	–	7.4	7.4
2021[2,3]	Third trimester to 1	60.3	60.3
2022[2,3]	1–2	39.0	39.1
Operations[3]	2–30 (28 years)	4.8	6.6
Concurrent Projects[4]	30	1.5	1.5
Total Excess Cancer Risk	30	113.0	114.9

Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator
1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).
2. Maximum concentrations attributable primarily to 700 Innes construction sources at Flats and Earl.
3. Assumes six of the eight emergency generators would be operating after the completion of Phase 1 construction.
4. Hunters Point and Candlestick Point area construction excess cancer risk. Provided by Ramboll Environ.
5. Receptor location: X (UTM) = 555480, Y (UTM) = 4176260.
Source: Compiled by AECOM in 2017

Table 39. Project Conditions (Uncontrolled) Maximum Modeled Excess Cancer Risk Concentrations at On-Site (Flats and Earl) Residential Receptors

Year	Years of Age	Residential Project (in a million)[4]	Maximum Commercial Variant (in a million)[4]
Existing Conditions (CRRP-HRA [2014])[1]	–	12.3	12.3
Operations[2]	30	17.7	19.3
Concurrent Projects[3]	30	0.6	0.6
Total Excess Cancer Risk	30	30.6	32.2
Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator			
1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).			
2. Maximum concentrations attributable primarily to 700 Innes sources (traffic).			
3. Hunters Point and Candlestick Point area construction excess cancer risk. Provided by Ramboll Environ.			
4. Receptor location: X (UTM) = 555300, Y (UTM) = 4176260.			
Source: Compiled by AECOM in 2017.			

Table 40. Project Conditions Excess Cancer Risk Attributable to Operations in Addition to Cumulative Conditions (CRRP-HRA [2040]) Cancer Risk

Year	Residential Project (in a million)[3]	Maximum Commercial Variant (in a million)[4]
Cumulative Conditions (CRRP-HRA [2040])[1]	48.4	26.0
Project Operations[2]	4.3	29.7
Cumulative Excess Cancer Risk	52.7	55.7
Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator		
1. Community Risk Reduction Plan health risk assessment for Year 2040 (Cumulative Conditions).		
2. Maximum concentrations attributable primarily to 700 Innes sources (specifically traffic).		
3. Receptor location: X (UTM) = 554720, Y (UTM) = 4176860.		
4. Receptor location: X (UTM) = 555200, Y (UTM) = 4176160.		
Source: Compiled by AECOM in 2017.		

Tables 41 through **43** summarize the excess cancer risk attributable to Existing Conditions, Baseline Conditions (Existing Conditions plus concurrent projects), Project Conditions, and Baseline Conditions plus Project Conditions using control measures (Tier 4 final off-road equipment and Tier 4 diesel engines for emergency generators). **Figures 24** and **25** show the Baseline Conditions plus Project Conditions using control measures. **Table 44** summarizes the Cumulative Conditions (CRRP-HRA [2040]) excess cancer risk with Project Conditions (controlled) and these results are shown in **Figures 26** through **28** (Cumulative Conditions and Cumulative Conditions plus Project Conditions). The Project Conditions excess cancer risk when added to the CRRP-HRA cancer risk would not create a new APEZ.

AECOM

**Table 41. Project Conditions Maximum Modeled Excess Cancer Risk Concentrations
(Controlled) at Existing Off-Site Residential Receptors**

Year	Years of Age	Residential Project (in a million)[9]	Maximum Commercial Variant (in a million)[9]
Existing Conditions (CRRP-HRA [2014])[1]	–	46.0	46.0
2018[2]	Third trimester to 1	3.4	3.4
2019[3]	1–2	4.3	4.7
2020[4]	2–3	0.4	0.4
2021[5,6]	3–4	0.1	0.1
2022[5,6]	4–5	< 0.1	< 0.1
Operations[7]	5–30 (25 years)	1.6	2.5
Concurrent Projects[8]	30	0.7	0.7
Total Excess Cancer Risk	30	56.4	57.7

Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator

1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).
2. Maximum concentrations attributable primarily to grading (50%) and 700 Innes construction sources.
3. Maximum concentrations attributable primarily to 700 Innes construction sources (75%).
4. Maximum concentrations attributable primarily to 700 Innes (80%) construction sources.
5. Maximum concentrations attributable primarily to 700 Innes construction sources.
6. Assumes six of the eight emergency generators (Tier 4) would be operating after the completion of Phase 1 construction.
7. Maximum concentrations attributable primarily to 700 Innes sources (traffic).
8. Hunters Point and Candlestick Point area construction excess cancer risk. Provided by Ramboll Environ.
9. Receptor location: X (UTM) = 554740, Y (UTM) = 4176860.

Source: Compiled by AECOM in 2017.

Table 42. Project Conditions Maximum Modeled Excess Cancer Risk Concentrations (Controlled) at On-Site (Hillside–Hamman Cove) Residential Receptors

Year	Years of Age	Residential Project (in a million)[6]	Maximum Commercial Variant (in a million)[6]
Existing Conditions (CRRP-HRA [2014])[1]	–	29.2	29.2
2021[2,3]	Third trimester to 1	0.8	0.8
2022[2,3]	1–2	0.1	0.1
Operations[4]	2–30 (28 years)	5.2	8.6
Concurrent Projects[3]	30	0.7	0.7
Total Excess Cancer Risk	30	36.0	39.4

Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator

1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).
2. Maximum concentrations attributable primarily to 700 Innes construction sources (Tier 4 final off-road equipment) at Flats and Earl.
3. Assumes six of the eight emergency generators (Tier 4) would be operating after the completion of Phase 1 construction.
4. Maximum concentrations attributable primarily to 700 Innes sources (traffic).
5. Hunters Point and Candlestick Point area construction excess cancer risk. Provided by Ramboll Environ.
6. Receptor location: X (UTM) = 555040, Y (UTM) = 4176260.

Source: Compiled by AECOM in 2017.

Table 43. Project Conditions Maximum Modeled Excess Cancer Risk (Controlled) at On-Site (Flats and Earl) Residential Receptors

Year	Years of Age	Residential Project (in a million)[4]	Maximum Commercial Variant (in a million)[4]
Existing Conditions (CRRP-HRA [2014])[1]	–	12.6	12.6
Operations[2]	30	5.5	10.2
Concurrent Projects[3]	30	0.6	0.6
Total Excess Cancer Risk	30	18.7	23.4

Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator

1. Community Risk Reduction Plan health risk assessment for Year 2014 (Existing Conditions).
2. Maximum concentrations attributable primarily to 700 Innes sources (traffic).
3. Hunters Point and Candlestick Point area construction excess cancer risk. Provided by Ramboll Environ.
4. Receptor location: X (UTM) = 555300, Y (UTM) = 4176240.

Source: Compiled by AECOM in 2017.

Table 44. Project Conditions Excess Cancer Risk (Controlled) in Addition to Cumulative Conditions (CRRP-HRA [2040] Cancer Risk)

Year	Residential Project (in a million)[3]	Maximum Commercial Variant (in a million)[3]
Cumulative Conditions (CRRP-HRA [2040])[1]	48.4	48.4
Project Operations[2]	4.1	6.5
Cumulative Excess Cancer Risk	52.5	54.9
Notes: CRRP = Community Risk Reduction Plan; HRA = health risk assessment; UTM = Universal Transverse Mercator		
[1] Community Risk Reduction Plan health risk assessment for Year 2040 (Cumulative Conditions).		
[2] Maximum concentrations attributable primarily to 700 Innes sources (traffic). Tier 4 engines used for emergency generators.		
[3] Receptor location: X (UTM) = 554720, Y (UTM) = 4176860.		
Source: Compiled by AECOM in 2017.		

Figure 18: Existing Conditions (CRRP-HRA [2014]) Excess Cancer Risk

PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL   in-a-million

Max: 46 [in-a-million] at (554740.00, 4176860.00)
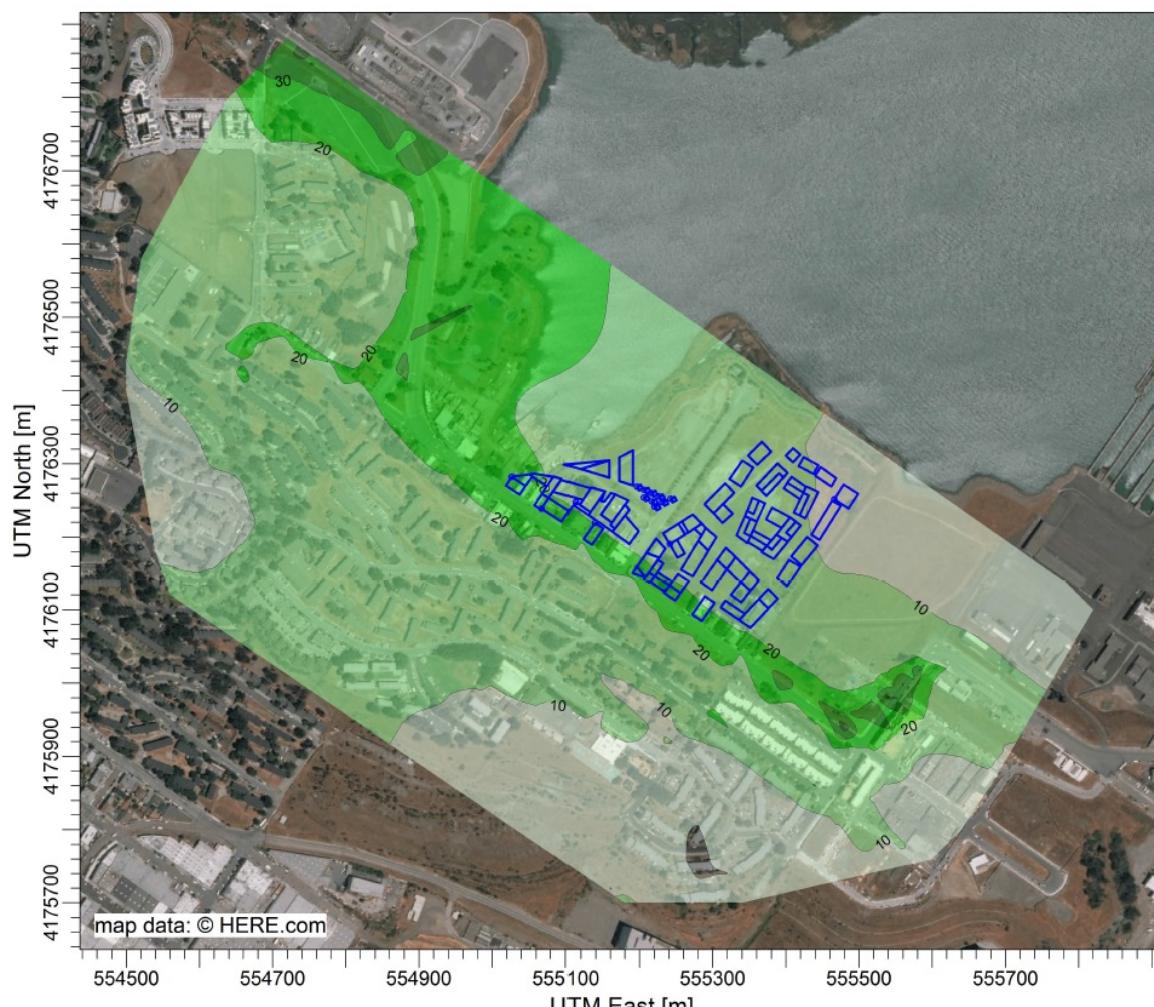
Figure 19: Baseline Conditions (Existing Conditions (CRRP-HRA [2014] plus Hunters Point) Excess Cancer Risk
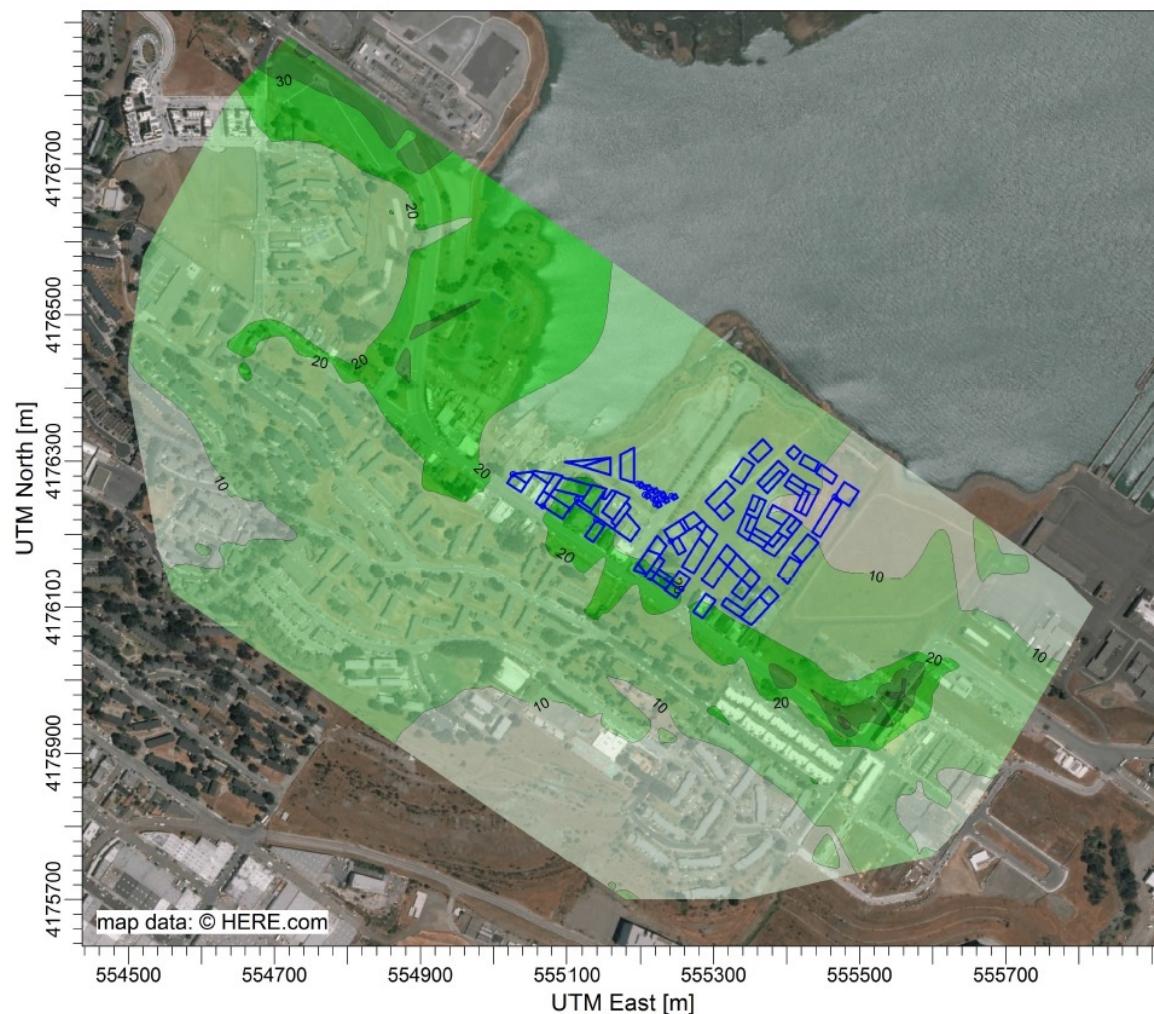
Figure 20: Residential Project Conditions (Uncontrolled) Excess Cancer Risk
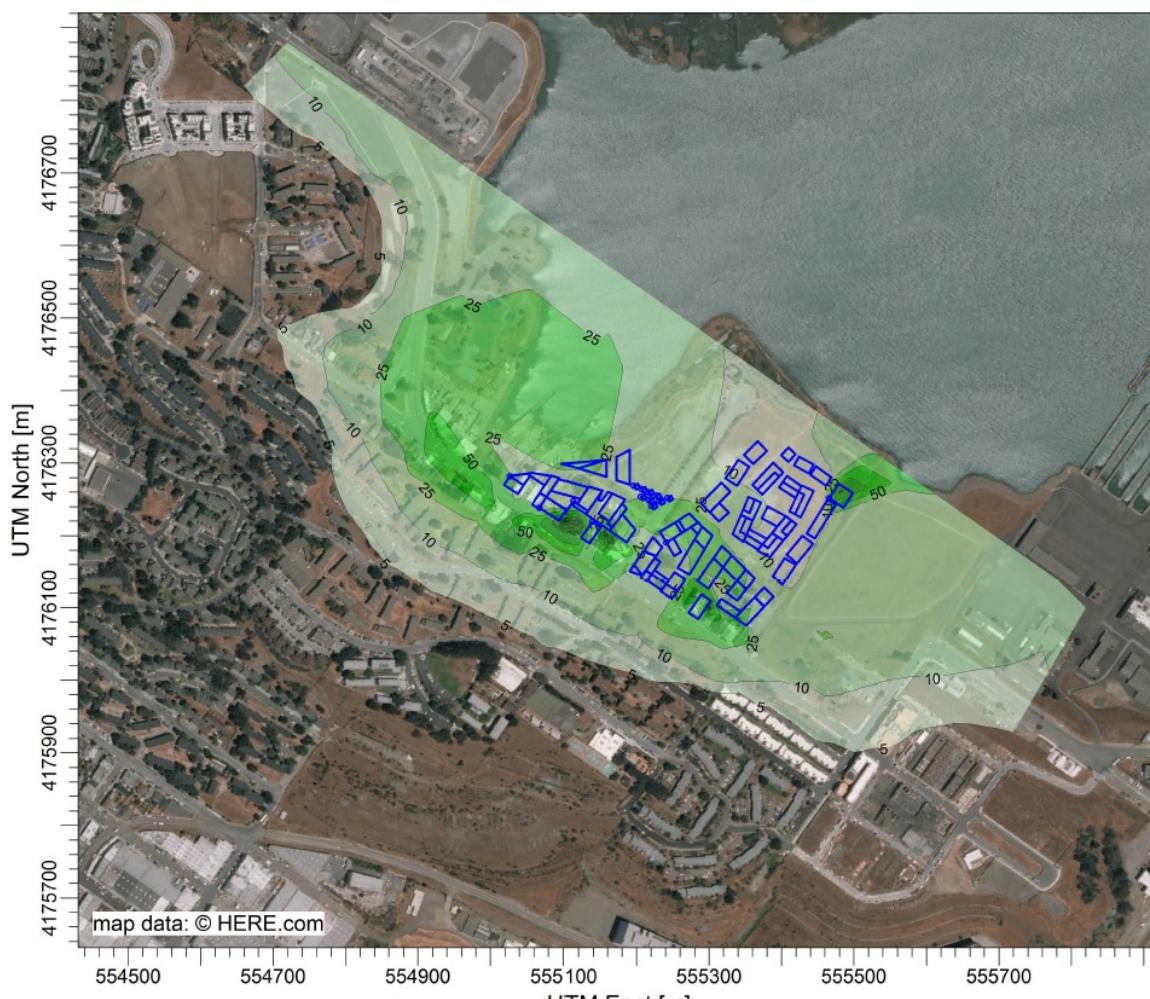
Figure 21: Maximum Commercial Variant Project Conditions (Uncontrolled) Excess Cancer Risk
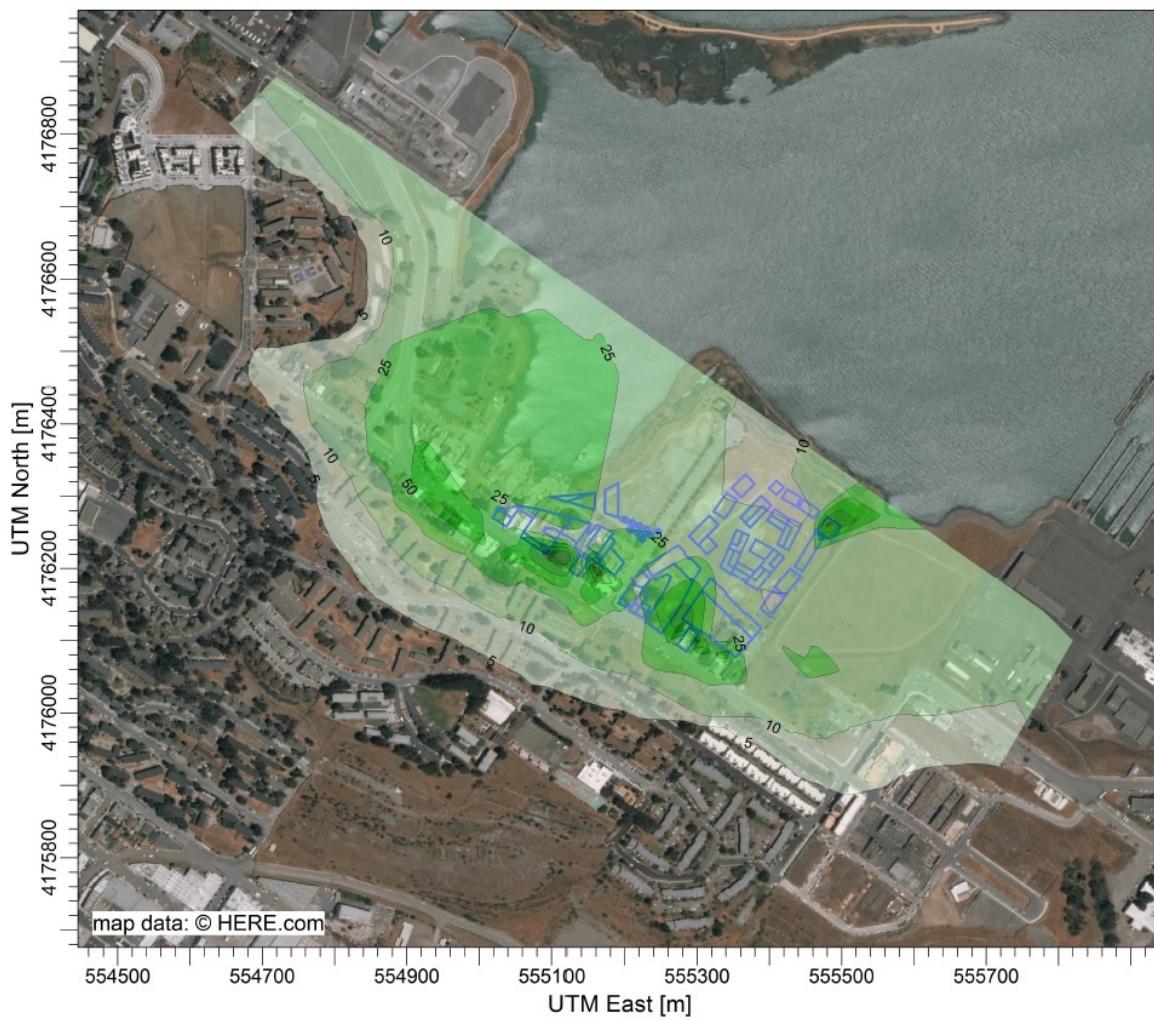
PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL   in-a-million

Max: 125 [in-a-million] at (555120.00, 4176220.00)

Figure 22: Baseline Conditions plus Residential Project Conditions (Uncontrolled) Excess Cancer Risk
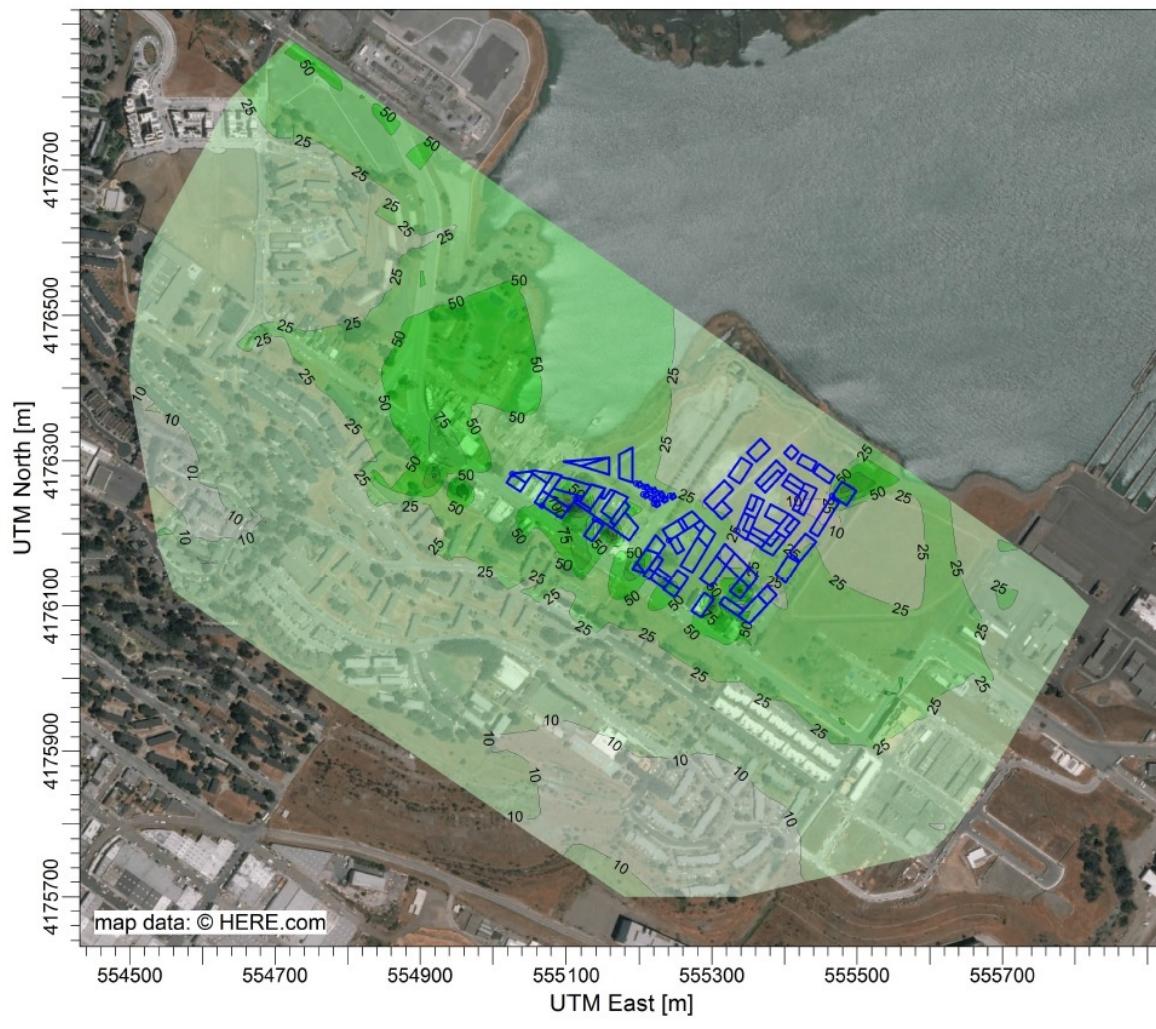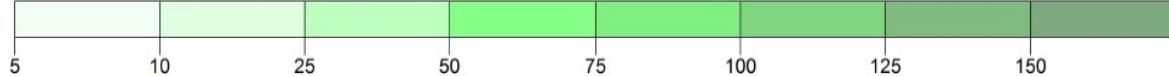
Figure 23: Baseline Conditions plus Maximum Commercial Variant Project Conditions (Uncontrolled) Excess Cancer Risk

PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL

Max: 148 [in-a-million] at (555120.00, 4176220.00)
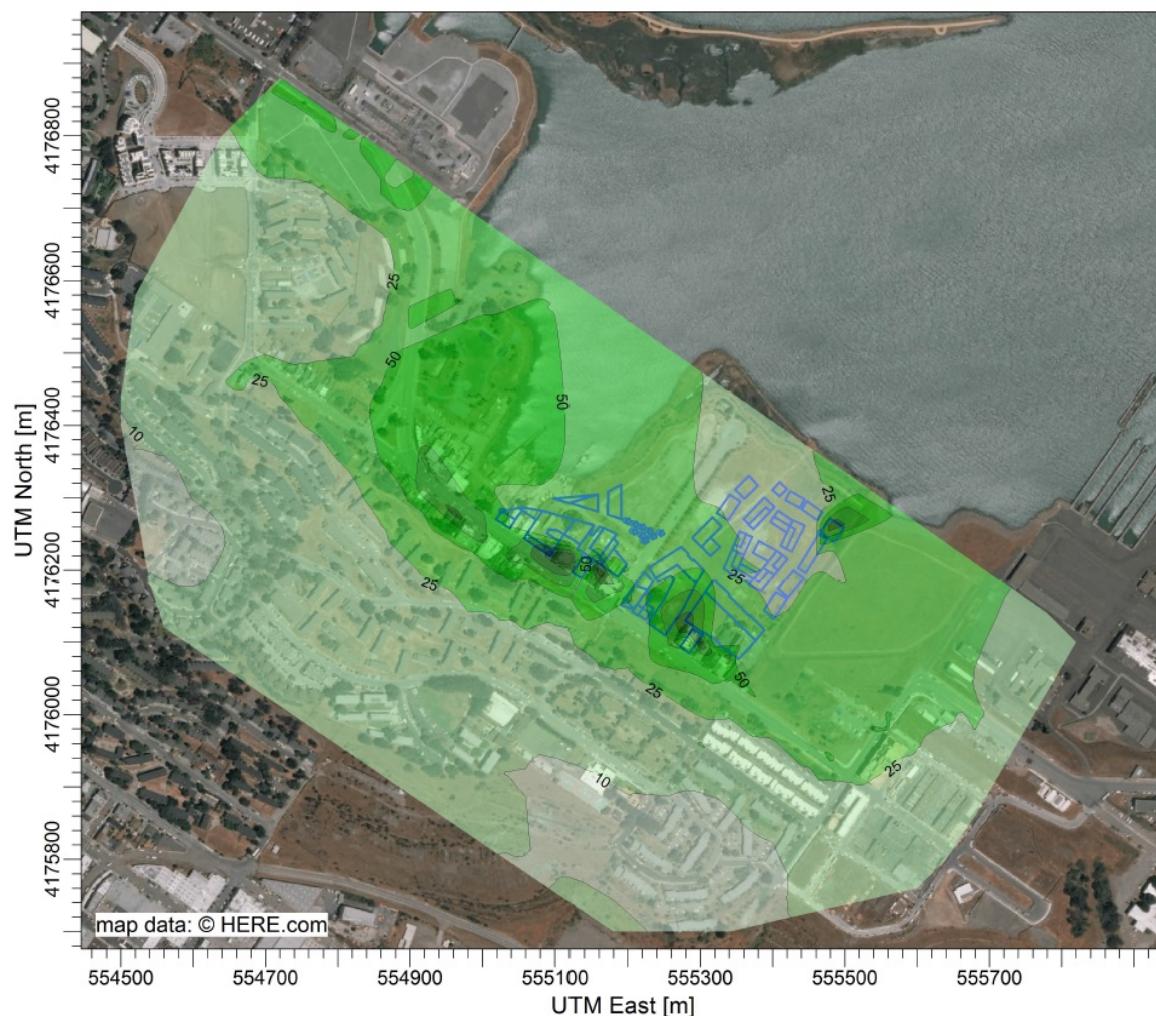
in-a-million

Figure 24: Baseline Conditions plus Residential Project Conditions (Controlled) Excess Cancer Risk
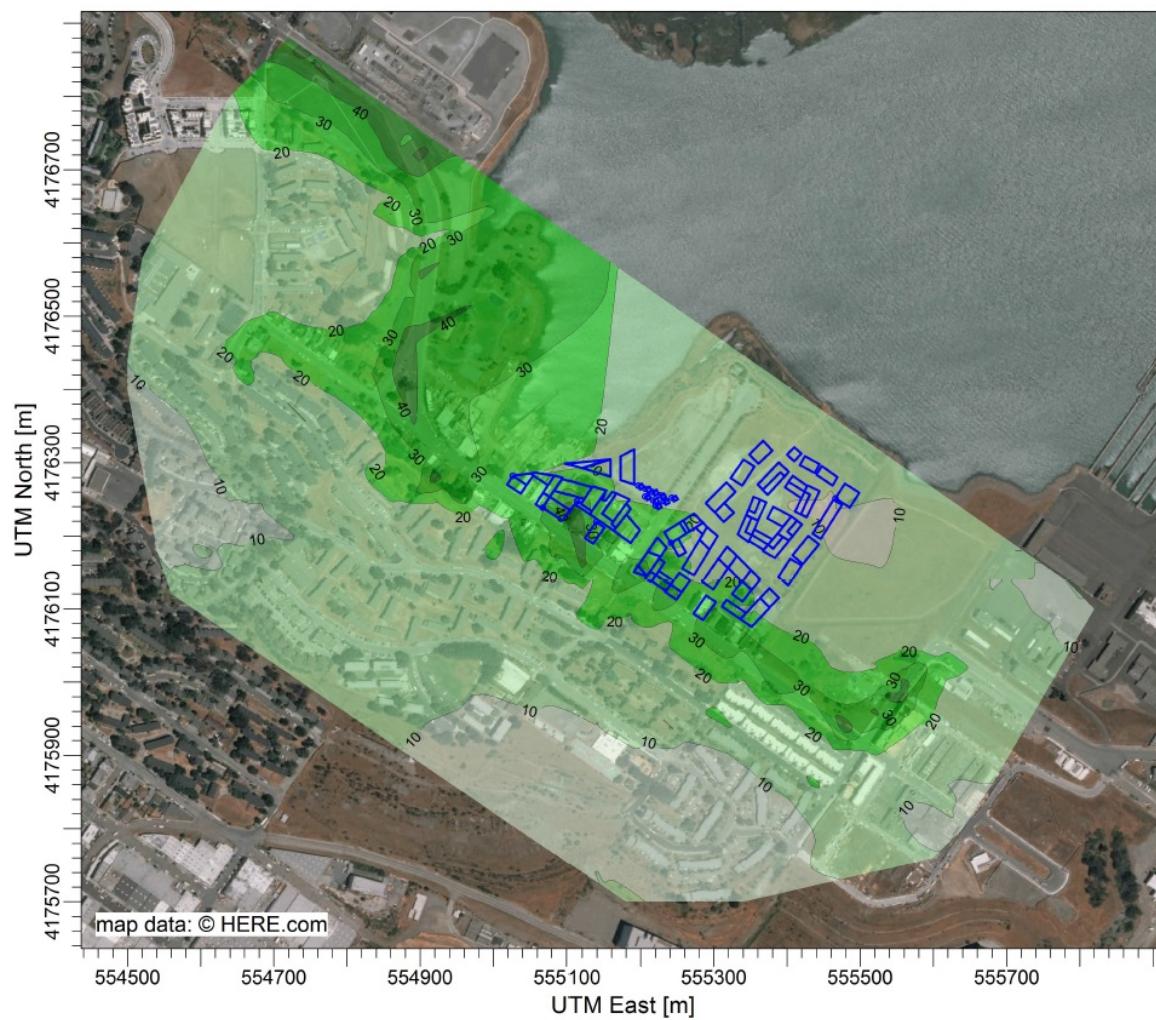
PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL   in-a-million

Max: 56 [in-a-million] at (554740.00, 4176860.00)
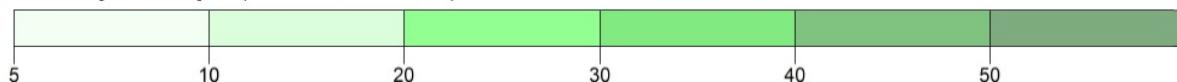
Figure 25: Baseline Conditions plus Maximum Commercial Variant Project Conditions (Controlled) Excess Cancer Risk
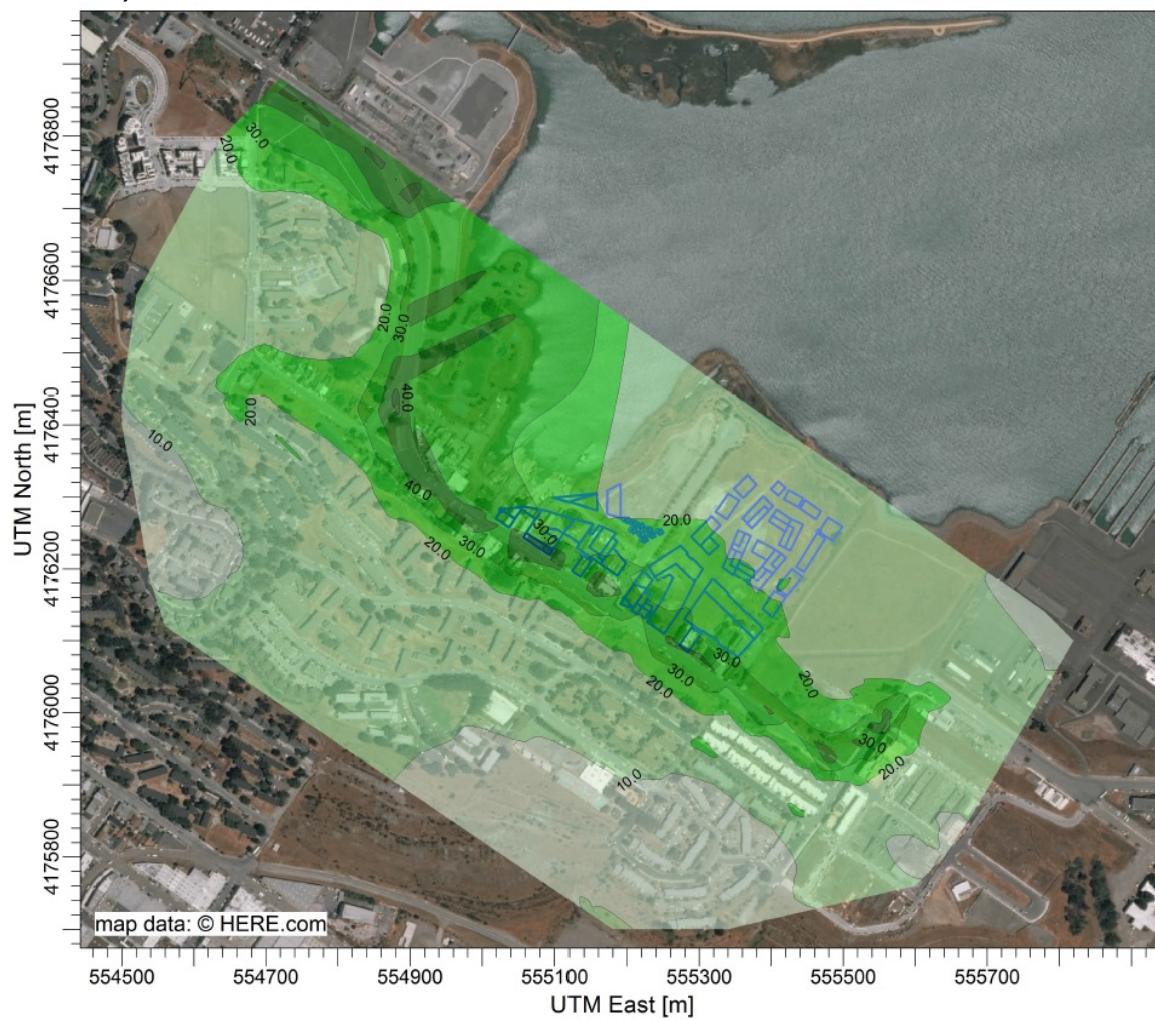
Figure 26: Cumulative Conditions (CRRP-HRA [2040]) Excess Cancer Risk

PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL   in-a-million

Max: 48 [in-a-million] at (554720.00, 4176860.00)
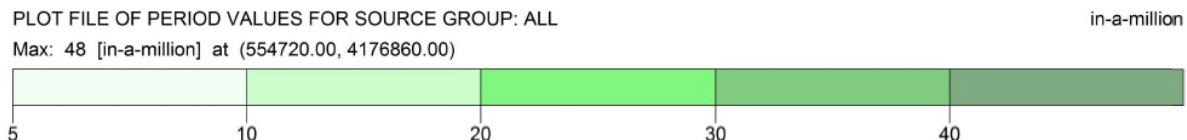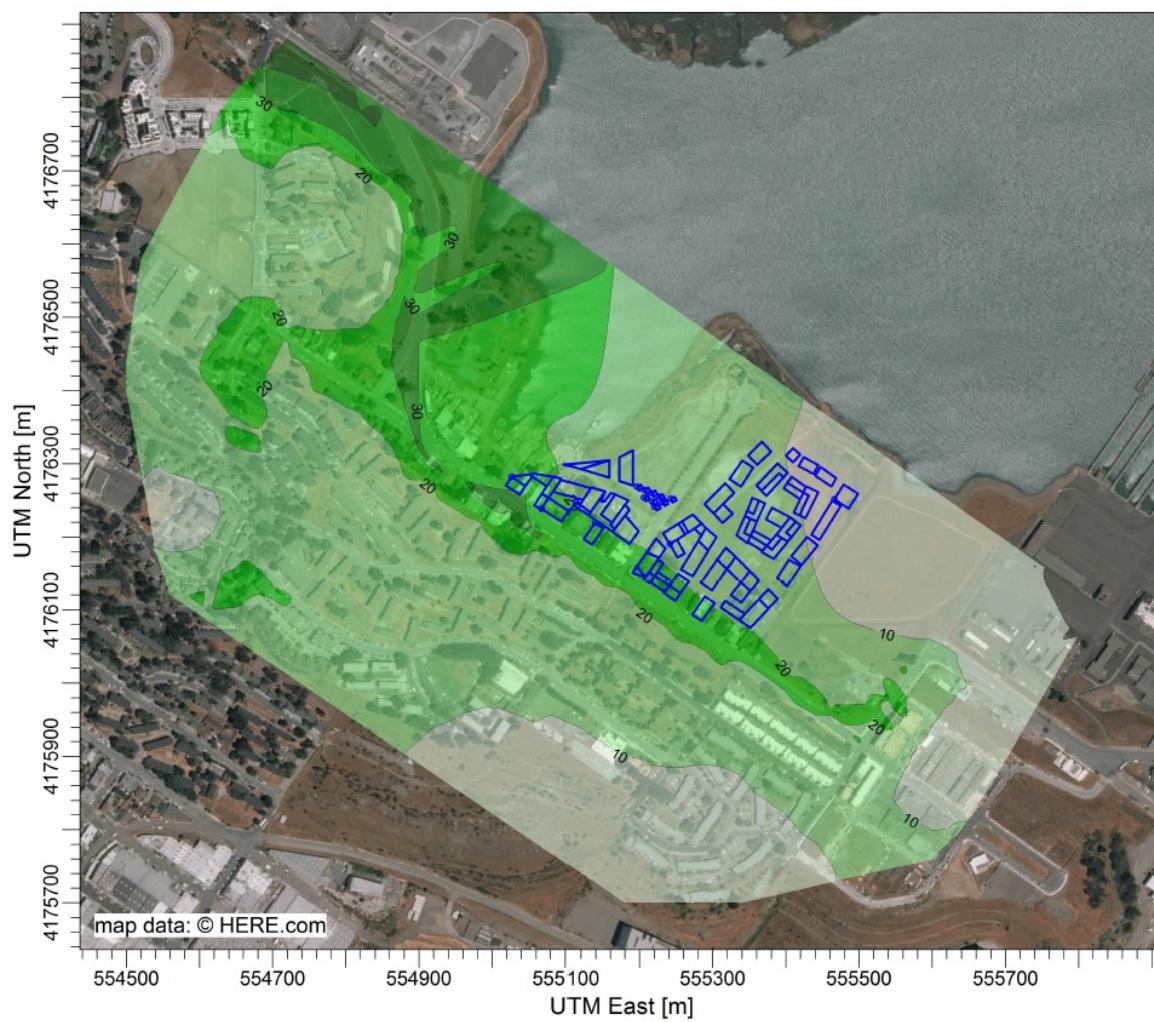
Figure 27: Cumulative Conditions plus Residential Project Conditions (Uncontrolled) Excess Cancer Risk
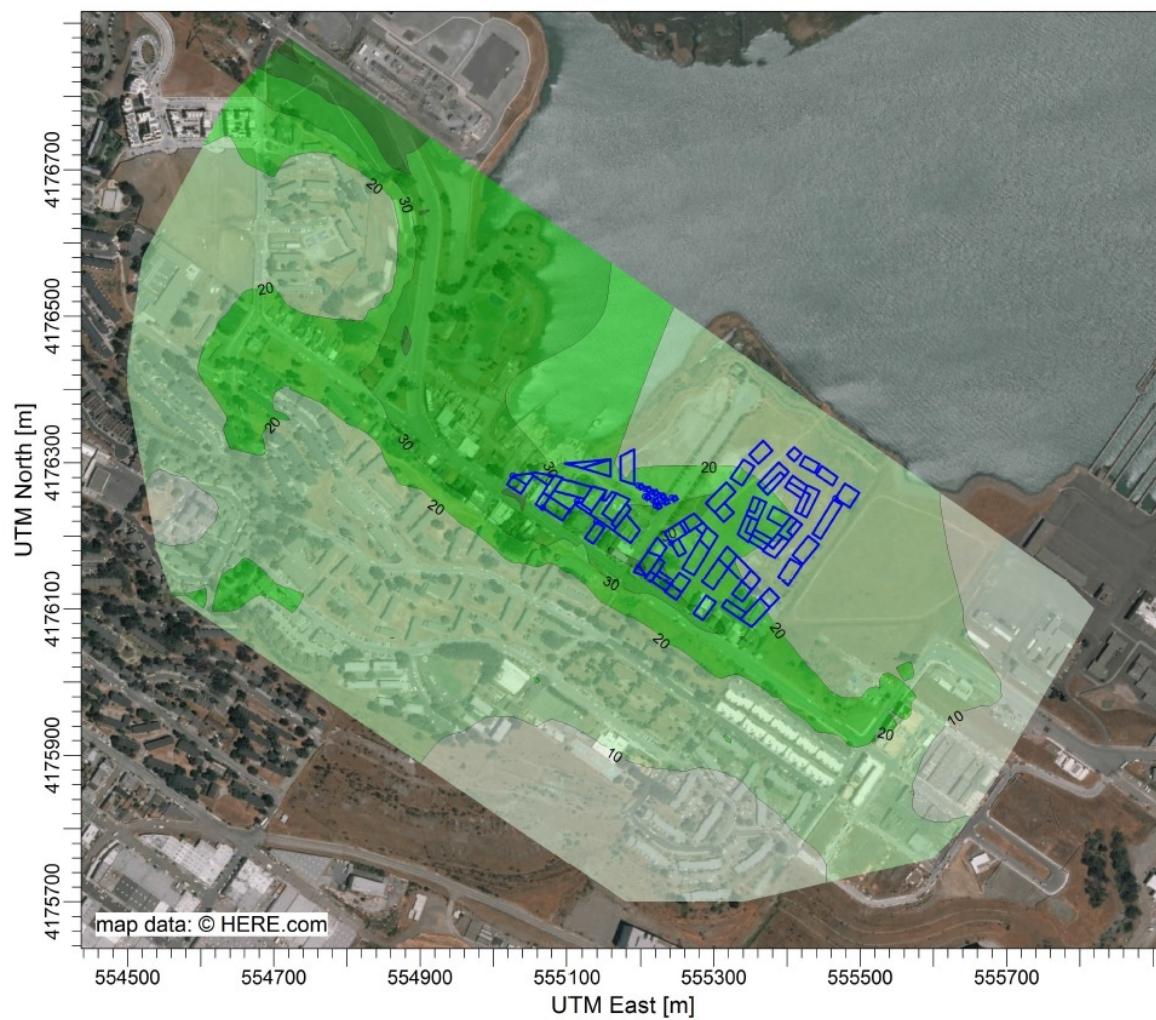
PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL   in-a-million

Max: 53 [in-a-million] at (554720.00, 4176860.00)
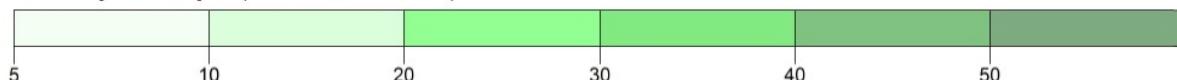
Figure 28: Cumulative Conditions plus Maximum Commercial Variant Project Conditions (Uncontrolled) Excess Cancer Risk

5.0 Uncertainties

In accordance with risk assessment guidance, the following discussion summarizes the main uncertainties associated with the emissions estimation, air dispersion modeling, and risk estimation components of the HRA methodology.

Emissions Estimates

Uncertainties exist in estimating emissions from construction equipment. Where project-specific data were not available, CalEEMod default values or conservative input assumptions were used. Uncertainties also exist in estimating operational TAC emissions from potential stationary sources associated with research and development, laboratory, and clinical care uses. The specific uses of these spaces, types of processes, and potential types and quantities of emissions have not been determined at this time.

Air Dispersion Modeling

In addition to the uncertainty associated with emission estimates, uncertainty exists regarding the pollutant concentrations estimated by the air dispersion model. The limitations of the air dispersion model provide a source of uncertainty in the estimation of exposure concentrations. According to EPA, errors attributable to the limitation of the algorithms implemented in the air dispersion model in the highest estimated concentrations of +/- 10 percent to 40 percent are typical (EPA, 2016). AECOM's methodologies use conservative assumptions and techniques to produce conservative results; thus, predicted exposure concentrations are likely to be at or above actual exposure concentrations.

The source parameters used to model emission sources add uncertainty. For all emission sources, AECOM uses source parameters that are either recommended as defaults or expected to produce more conservative results. Discrepancies might exist between the actual emissions characteristics of a source and its representation in the model; exposure concentrations used in this assessment represent approximate exposure concentrations.

Health Risk Analysis

Numerous assumptions must be made to estimate human exposure to pollutants. These assumptions include parameters such as breathing rates, exposure time and frequency, exposure duration, and human activity patterns. While a mean value derived from scientifically defensible studies is the best estimate of central tendency, most exposure variables used in this HRA are high-end estimates. For example, it is assumed that residential receptors would be exposed to project emissions during the entire construction duration and to cumulative emissions sources 13 hours per day for 350 days per year. This assumption is highly conservative because most residents do not remain in their homes for this period of time. The combination of several high-end estimates used as exposure parameters may substantially overestimate chemical intake. The excess lifetime cancer risks calculated in this assessment are therefore likely to be higher than may be required to be protective of public health.

The OEHHA Cancer Potency Factor (CPF) for diesel PM is used to estimate cancer risks associated with exposure to diesel PM from the project and off-site emissions. However, the CPF derived by OEHHA for diesel PM is highly uncertain in the estimation of both response and dose. In the past, because of inadequate animal test data and epidemiology data on diesel exhaust, the International Agency for Research on Cancer (IARC), a branch of the World Health Organization, had classified diesel PM as Probably Carcinogenic to Humans (Group 2); EPA had also concluded that the existing data did not provide an adequate basis for quantitative risk assessment (EPA, 2002). However, based on two recent scientific studies (Benbrahim-Tallaa et al., 2012; Attfield et al, 2012), IARC recently reclassified diesel PM as Carcinogenic to Humans (Group 1) (IARC, 2012), which means that the agency has determined that there is "sufficient evidence of carcinogenicity" of a substance in

humans and represents the strongest weight-of-evidence rating in IARC's carcinogen classification scheme. This determination by IARC may provide additional impetus for EPA to identify a quantitative dose/response relationship between exposure to diesel PM and cancer.

OEHHA notes that the conservative assumptions used in a risk assessment are intended to avoid underestimation of actual risks posed by a site, and are designed to err on the side of health protection (OEHHA, 2015). The estimated risks in this HRA are based primarily on a series of conservative assumptions related to predicted environmental concentrations, exposure, and chemical toxicity. The use of conservative assumptions tends to produce upper-bound estimates of risk. Although it is difficult to quantify the uncertainties associated with all the assumptions made in this risk assessment, the use of conservative assumptions is likely to result in substantial overestimates of exposure, and hence, risk.

6.0 References

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**APPENDIX A – Construction and Operation Emission Calculations
(See CD for CalEEMod Output - Tables 18-27)**

Appendix A - Table of Contents

Table 1

Property	Construction Phase	Land Use	Lot Acreage	Floor Surface Area
India Basin Shoreline Park	RPD Shoreline Park	General Office Building	0.14	6,100
		Other Asphalt Surfaces	0.21	0
		Other Non-Asphalt Surfaces	0.21	0
		City Park	9.58	0
900 Innes	RPD 900 Innes	General Office Building	0.19	8,400
		City Park	3.71	0
India Basin Open Space	Shoreline Wetlands OS	City Park	5.13	0
	Beach and Pier OS	City Park	2.34	
700 Innes	Grading and Excavation	User Defined Industrial	37.8	0
	Hamman Hillside Cove	General Office Building	3	174,930
		Elementary School	0.5	50,000
		Enclosed Parking with Elevator	0	552,860
		Other Asphalt Surfaces	1.35	0
		Other Non-Asphalt Surfaces	1.35	0
		City Park	1.74	0
		Condo/Townhouse High Rise	4	996,800
		Regional Shopping Center	0	43,560
	Big Green	City Park	3.74	0
	Flats and Earl Construction	Enclosed Parking with Elevator	0	117,040
		Other Asphalt Surfaces	0.86	0
		Other Non-Asphalt Surfaces	0.86	0
		City Park	0.97	0
		Condo/Townhouse High Rise	3.1	570,819
		Regional Shopping Center	0	28,240

Table 2

Property	Construction Phase	Land Use	Lot Acreage	Floor Surface Area
India Basin Shoreline Park	RPD Shoreline Park	General Office Building	0.14	6,100
		Other Asphalt Surfaces	0.21	0
		Other Non-Asphalt Surfaces	0.21	0
		City Park	9.58	0
900 Innes	RPD 900 Innes	General Office Building	0.19	8,400
		City Park	3.71	0
India Basin Open Space	Shoreline Wetlands OS	City Park	5.13	0
	Beach and Pier	City Park	2.34	
700 Innes	Grading and Excavation	User Defined Industrial	37.8	0
	Hamman Hillside Cove	General Office Building	4.8	860,000
		Elementary School	0.5	50,000
		Enclosed Parking with Elevator	0	593,950
		Other Asphalt Surfaces	1.35	0
		Other Non-Asphalt Surfaces	1.35	0
		City Park	1.74	0
		Condo/Townhouse High Rise	1.7	263,885
		Regional Shopping Center	0	83,160
	Big Green	City Park	3.74	0
	Flats and Earl Construction	Enclosed Parking with Elevator	2.83	123,415
		Other Asphalt Surfaces	0.86	0
		Other Non-Asphalt Surfaces	0.86	0
		City Park	0.97	0
		Condo/Townhouse High Rise	3.1	570,819
		Regional Shopping Center	0.5	28,420

Property		700 Innes			India Basin Open Space	900 Innes	India Basin Shoreline Park	700 Innes	India Basin Open Space
Year	Month	BUILD Grading and Excavation	BUILD Hamman, Hillside Cove	BUILD Big Green	BUILD Shoreline Wetlands	RPD 900 Innes	RPD India Basin Shoreline Park	BUILD Flats and Earl Construction	BUILD Beach
2018	1								
	2								
	3								
	4								
	5								
	6	1							
	7	2							
	8	3							
	9	4							
	10	5							
	11	6	1						
	12	7	2						
2019	1	8	3			1			
	2	9	4			2			
	3		5			3			
	4		6			4			
	5		7			5			
	6		8			6			
	7		9			7			
	8		10			8			
	9		11			9			
	10		12			10			
	11		13			11			
	12		14			12			
2020	1		15				1		
	2		16				2		
	3		17				3		
	4		18				4		
	5		19				5		
	6		20				6		
	7		21	1			7		
	8		22	2			8		
	9		23	3			9		
	10		24	4	1		10		
	11		25	5	2		11	1	
	12		26	6	3		12	2	
2021	1		27	7	4			3	
	2			8	5			4	
	3			9	6			5	
	4			10	7			6	
	5				8			7	
	6				9			8	
	7				10			9	
	8				11			10	
	9				12			11	
	10							12	
	11							13	1
	12							14	2
2022	1							15	3
	2							16	4
	3							17	5
	4							18	6
	5							19	7
	6							20	8
	7							21	9
	8							22	10
	9							23	11
	10							24	12
	11								
	12								

Table 3. India Basin Construction Schedule

Table 4
BUILD Grading and Excavation

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Demolition	Demolition	2018/06/01	2018/08/30	6	78
Grading	Grading	2018/08/31	2019/02/28	6	156

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**Offroad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	144	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Grading	20	0	68198						

Table 5
BUILD Hamman, Hillside Cove

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2018/11/01	2019/01/04	6	56
Building Construction	Building Construction	2019/01/05	2020/11/19	6	587
Architectural Coating	Architectural Coating	2019/01/05	2021/01/30	6	649
Paving	Paving	2020/11/20	2020/12/26	6	32

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	Offroad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data								
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	20	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	896	220	0						
Paving	15	0	0						
Architectural Coating	179	0	0						

Table 6
BUILD Hamman, Hillside Cove - Commercial Variant

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2018/11/01	2019/01/05	6	57
Building Construction	Building Construction	2019/01/06	2020/11/03	6	572
Architectural Coating	Architectural Coating	2019/01/06	2021/01/30	6	648
Paving	Paving	2020/11/04	2020/12/01	6	24

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	20	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	613	266	0						
Paving	15	0	0						
Architectural Coating	123	0	0						

Table 7
BUILD Big Green

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2020/07/01	2020/07/08	6	7
Building Construction	Building Construction	2020/07/09	2021/03/19	6	218
Paving	Paving	2021/03/20	2021/04/09	6	18
Architectural Coating	Architectural Coating	2021/04/10	2021/04/30	6	18

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Excavators	1	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.2
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Cement and Mortar Mixers	2	6	9	0.56
Paving	Pavers	1	8	130	0.42
Paving	Paving Equipment	2	6	132	0.36
Paving	Rollers	2	6	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	23	0	0						
Paving	20	0	0						
Architectural Coating	5	0	0						

Table 8
BUILD Shoreline Wetlands

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2020/10/01	2020/10/26	6	22
Building Construction	Building Construction	2020/10/27	2021/08/12	6	249
Paving	Paving	2021/08/13	2021/09/07	6	22
Architectural Coating	Architectural Coating	2021/09/08	2021/09/30	6	20

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Excavators	1	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.2
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	23	0	0						
Paving	15	0	0						
Architectural Coating	5	0	0						

Table 9
RPD 900 Innes

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Demolition	Demolition	2019/01/01	2019/05/31	6	130
Grading	Grading	2019/06/01	2019/06/06	6	5
Building Construction	Building Construction	2019/06/07	2019/12/03	6	154
Paving	Paving	2019/12/04	2019/12/17	6	12
Architectural Coating	Architectural Coating	2019/12/18	2019/12/31	6	12

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**OffRoad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Architectural Coating	Air Compressors	1	6	78	0.48
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Paving	Cement and Mortar Mixers	2	6	9	0.56
	Pavers	1	8	130	0.42
	Paving Equipment	2	6	132	0.36
	Rollers	2	6	80	0.38
	Tractors/Loaders/Backhoes	1	8	97	0.37

Construction Trips Data								
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	5	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	23	1	0						
Demolition	15	0	28						
Grading	15	0	477						
Paving	20	0	0						

Table 10
RPD India Basin Shoreline Park

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Demolition	Demolition	2020/01/01	2020/01/18	6	16
Grading	Grading	2020/01/19	2020/02/15	6	24
Building Construction	Building Construction	2020/02/16	2020/11/23	6	241
Paving	Paving	2020/11/24	2020/12/11	6	16
Architectural Coating	Architectural Coating	2020/12/12	2020/12/31	6	17

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Grading	20	0	6863						
Building Construction	23	1	0						
Paving	15	0	0						
Architectural Coating	5	0	0						

Table 11
BUILD Flats and Earl

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Demolition	Demolition	2020/11/01	2020/12/01	6	26
Grading	Grading	2020/12/02	2021/01/18	6	41
Building Construction	Building Construction	2021/01/19	2022/07/26	6	475
Architectural Coating	Architectural Coating	2021/01/19	2022/10/31	6	558
Paving	Paving	2022/07/27	2022/09/12	6	41

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**OffRoad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data								
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Grading	15	0	0						
Building Construction	378	71	0						
Paving	15	0	0						
Architectural Coating	76	0	0						

Table 12
BUILD Flats and Earl - Commercial Variant

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Demolition	Demolition	2020/11/01	2020/12/01	6	26
Grading	Grading	2020/12/02	2021/01/18	6	41
Building Construction	Building Construction	2021/01/19	2022/07/26	6	475
Architectural Coating	Architectural Coating	2021/01/19	2022/10/31	6	558
Paving	Paving	2022/07/27	2022/09/12	6	41

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**OffRoad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	0						
Grading	15	0	0						
Building Construction	381	72	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Paving	15	0	0						
Architectural Coating	76	0	0						

Table 13
BUILD Beach Pier OS

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2021/11/01	2021/11/26	6	23
Building Construction	Building Construction	2021/11/27	2022/10/03	6	266
Paving	Paving	2022/10/04	2022/10/17	6	12
Architectural Coating	Architectural Coating	2022/10/18	2022/10/31	6	12

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Tractors/Loaders/Backhoes	2	7	97	0.37
Building Construction	Cranes	1	8	231	0.29
Building Construction	Forklifts	2	7	89	0.2
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6	97	0.37
Building Construction	Welders	3	8	46	0.45
Paving	Cement and Mortar Mixers	1	8	9	0.56
Paving	Pavers	1	8	130	0.42
Paving	Paving Equipment	1	8	132	0.36
Paving	Rollers	2	8	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data								
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	10	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	20	0	0						
Paving	15	0	0						
Architectural Coating	4	0	0						

Table 14
Total Construction Emissions - Residential Variant

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	37.80	215.65	4.34	4.04	13.98
2019	41.17	245.02	5.81	5.40	15.43
2020	54.02	140.84	5.69	5.29	10.24
2021	50.86	109.07	4.45	4.18	8.70
2022	18.34	39.02	1.68	1.59	3.17
Maximum Average Daily	54.02	245.02	5.81	5.40	15.43

700 Innes

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	37.80	215.65	4.34	4.04	13.98
2019	37.80	215.65	4.34	4.04	13.98
2020	48.87	91.45	3.50	3.30	7.54
2021	48.87	91.45	3.50	3.30	7.54
2022	16.51	24.54	0.99	0.93	2.22
Maximum Average Daily	48.87	215.65	4.34	4.04	13.98

900 Innes

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	0.00	0.00	0.00	0.00	0.00
2019	3.37	29.37	1.48	1.36	1.46
2020	0.00	0.00	0.00	0.00	0.00
2021	0.00	0.00	0.00	0.00	0.00
2022	0.00	0.00	0.00	0.00	0.00
Maximum Average Daily	3.37	29.37	1.48	1.36	1.46

India Basin Shoreline Park

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00
2020	3.16	31.77	1.24	1.11	1.54
2021	0.00	0.00	0.00	0.00	0.00
2022	0.00	0.00	0.00	0.00	0.00
Maximum Average Daily	3.16	31.77	1.24	1.11	1.54

India Basin Open Space

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00
2020	1.88	17.09	0.94	0.88	1.16
2021	1.88	17.09	0.94	0.88	1.16
2022	1.82	14.48	0.70	0.67	0.95
Maximum Average Daily	1.88	17.09	0.94	0.88	1.16

Table 15. Unmitigated Construction Emissions Summary - Residential Project

		1 BUILD Grading and Excavation					2 BUILD Hamman, Hillside Cove					3 BUILD Big Green					4 BUILD Shoreline Wetlands					4w BUILD Shoreline Wetlands (Over/Near Water)					5 RPD 900 Innes					5w RPD 900 Innes (Over/Near Water)					6 RPD India Basin Shoreline Park					6w RPD India Basin Shoreline Park (Over/Near Water)					7 BUILD Flats and Earl Construction					8 BUILD Beach (Over/Near Water)					8w BUILD Beach				
Year	Month	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	1																																																													
	2																																																													
	3																																																													
	4																																																													
	5																																																													
	6	7.38	165.92	2.79	2.59	9.71																																																									
	7	7.38	165.92	2.79	2.59	9.71																																																									
	8	7.38	165.92	2.79	2.59	9.71																																																									
	9	7.38	165.92	2.79	2.59	9.71																																																									
	10	7.38	165.92	2.79	2.59	9.71																																																									
	11	7.38	165.92	2.79	2.59	9.71	30.42	49.73	1.54	1.45	4.27																																																		
	12	7.38	165.92	2.79	2.59	9.71	30.42	49.73	1.54	1.45	4.27																																																	
2019	1	7.38	165.92	2.79	2.59	9.71	30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	2	7.38	165.92	2.79	2.59	9.71	30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	3						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	4						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	5						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	6						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	7						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	8						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	9						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	10						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	11						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
	12						30.42	49.73	1.54	1.45	4.27																3.08	26.96	1.44	1.34	1.45	0.29	2.40	0.04	0.01	0.01																								
2020	1						30.42	49.73	1.54	1.45	4.27																															2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	2						30.42	49.73	1.54	1.45	4.27																															2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	3						30.42	49.73	1.54	1.45	4.27																															2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	4						30.42	49.73	1.54	1.45	4.27																															2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	5						30.42	49.73	1.54	1.45	4.27																															2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	6						30.42	49.73	1.54	1.45	4.27																															2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	7						30.42	49.73	1.54	1.45	4.27	1.93	17.18	0.97	0.92	1.05																										2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	8						30.42	49.73	1.54	1.45	4.27	1.93	17.18	0.97	0.92	1.05																										2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	9						30.42	49.73	1.54	1.45	4.27	1.93	17.18	0.97	0.92	1.05																										2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	10						30.42	49.73	1.54	1.45	4.27	1.93	17.18	0.97	0.92	1.05	1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01											
	11						30.42	49.73	1.54	1.45	4.27	1.93	17.18	0.97	0.92	1.05	1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01	16.51	24.54	0.90	0.93	2.22					
	12						30.42	49.73	1.54	1.45	4.27	1.93	17.18	0.97	0.92	1.05	1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																2.66	28.81	1.15	1.10	1.54	0.50	2.96	0.06	0.01	0.01	16.51	24.54	0.90	0.93	2.22					
2021	1						30.42	49.73	1.54	1.45	4.27						1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	2											1.93	17.18	0.97	0.92	1.05	1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	3											1.93	17.18	0.97	0.92	1.05	1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	4											1.93	17.18	0.97	0.92	1.05	1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	5																1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	6																1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	7																1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	8																1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	9																1.88	17.09	0.94	0.88	1.16	0.10	0.54	0.01	0.00	0.00																									16.51	24.54	0.90	0.93	2.22					
	10																																																		16.51	24.54	0.90	0.93	2.22					
	11																																																		16.51	24.54	0.90	0.93	2.22					
	12																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
2022	1																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	2																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	3																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	4																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	5																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	6																																																		16.51	24.54	0.90	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	7																																																		16.51	24.54	0.95	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	8																																																		16.51	24.54	0.95	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	9																																																		16.51	24.54	0.95	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	10																																																		16.51	24.54	0.95	0.93	2.22	1.82	14.48	0.70	0.67	0.95
	11																																																											
	12																																																											

INCLUDED under BUILD Shoreline Wetlands (Over/Near Water)

Table 16
Total Construction Emissions - Commercial Variant

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	33.04	218.82	4.31	4.02	13.39
2019	36.41	248.19	5.79	5.38	14.84
2020	53.51	150.14	5.99	5.57	10.18
2021	50.35	118.37	4.75	4.46	8.64
2022	22.59	45.14	2.01	1.90	3.70
Maximum Average Daily	53.51	248.19	5.99	5.57	14.84

700 Innes

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	33.04	218.82	4.31	4.02	13.39
2019	33.04	218.82	4.31	4.02	13.39
2020	48.36	100.75	3.81	3.58	7.49
2021	48.36	100.75	3.81	3.58	7.49
2022	20.76	30.67	1.31	1.24	2.75
Maximum Average Daily	48.36	218.82	4.31	4.02	13.39

900 Innes

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	0.00	0.00	0.00	0.00	0.00
2019	3.37	29.37	1.48	1.36	1.46
2020	0.00	0.00	0.00	0.00	0.00
2021	0.00	0.00	0.00	0.00	0.00
2022	0.00	0.00	0.00	0.00	0.00
Maximum Average Daily	3.37	29.37	1.48	1.36	1.46

India Basin Shoreline Park

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00
2020	3.16	31.77	1.24	1.11	1.54
2021	0.00	0.00	0.00	0.00	0.00
2022	0.00	0.00	0.00	0.00	0.00
Maximum Average Daily	3.16	31.77	1.24	1.11	1.54

India Basin Open Space

	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
2018	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00
2020	1.88	17.09	0.94	0.88	1.16
2021	1.88	17.09	0.94	0.88	1.16
2022	1.82	14.48	0.70	0.67	0.95
Maximum Average Daily	1.88	17.09	0.94	0.88	1.16

Construction emissions schedule by phase, year, and month (tons/year). Values in each phase group are: ROG, NOx, PM10 (exhaust), PM2.5 (exhaust), PM2.5 (TOTAL).

Phase	1 — BUILD Grading and Excavation					2 — BUILD Hamman, Hillside Cove					3 — BUILD Big Green					4 — BUILD Shoreline Wetlands					4w — BUILD Shoreline Wetlands (Over/Near Water)					5 — RPD 900 Innes (Commercial Variant)					5w — RPD 900 Innes (Over/Near Water)					6 — RPD India Basin Shoreline Park (Commercial Variant)					6w — RPD India Basin Shoreline Park (Over/Near Water)					7 — BUILD Flats and Earl Construction (Commercial Variant)					8 — BUILD Beach					8w — BUILD Beach (Over/Near Water)				

Typical per-phase monthly values appearing in the table:

Phase	ROG	NOx	PM10 (exhaust)	PM2.5 (exhaust)	PM2.5 (TOTAL)
1 — BUILD Grading and Excavation	7.38	165.92	2.79	2.59	9.71
2 — BUILD Hamman, Hillside Cove	25.66	52.90	1.52	1.43	3.68
3 — BUILD Big Green	1.93	17.18	0.97	0.92	1.05
4 — BUILD Shoreline Wetlands	1.88	17.09	0.94	0.88	1.16
4w — BUILD Shoreline Wetlands (Over/Near Water)	0.10	0.54	0.01	0.00	0.00
5 — RPD 900 Innes	3.08	26.96	1.44	1.34	1.45
5w — RPD 900 Innes (Over/Near Water)	0.29	2.40	0.04	0.01	0.01
6 — RPD India Basin Shoreline Park	2.60	28.81	1.16	1.10	1.54
6w — RPD India Basin Shoreline Park (Over/Near Water)	0.50	2.96	0.06	0.01	0.01
7 — BUILD Flats and Earl Construction	20.76	30.67	1.31	1.24	2.75
8 — BUILD Beach	1.82	14.48	0.70	0.67	0.95

Timeline (Year / Month):
- 2018: Months 6–12 — Phase 1 active (Months 6–12); Phase 2 begins Months 11–12.
- 2019: Months 1–12 — Phase 1 (Months 1–2), Phase 2 (all months), Phase 5 (all months).
- 2020: Months 1–12 — Phase 2 (all months), Phase 3 (Months 7–12), Phase 4 (Months 11–12), Phase 6 (all months), Phase 7 (Months 11–12).
- 2021: Months 1–12 — Phase 3 (Months 1–4), Phase 4 (Months 1–9), Phase 7 (all months).
- 2022: Months 1–12 — Phase 7 (all months), Phase 8 (all months).

Note (highlighted): INCLUDED under BUILD Shoreline Wetlands (Over/Near Water)

Table 28. RPD Shoreline Park - Over/Near Water

ITEM DESCRIPTION	Equipment Type	Size (HP)	Daily Eq hrs	Construction Duration Hrs	Load Factor	Emission Factors (g/bhp-hr) ROG	CO	NOx	PM10	PM.2.5	CO2	CH4	Emissions (lbs/duration) ROG	CO	NOx	PM10	PM.2.5	CO2	CH4
Floating Pier																			
square, L=80'																			
	Truck - Semi	380.00	2.00	11.25	0.38	0.08	2.6	1.29	0.008	0.008	474.5787	0.1535	0.286513	9.3116722	4.620022	0.0286513	0.0286513	1699.662	0.5497468
	Crane, 100 ton	205.00	8.00	11.25	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.1179584	3.833649	1.9020797	0.0117958	0.0117958	697.35372	0.2255955
Install Concrete Piles																			
	Crane, 100 ton	205.00	8.00	22.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.2306743	7.4969135	3.7196225	0.0230674	0.0230674	1363.7139	0.4411645
	Pile, Hammer, D46	120.00	8.00	22.00	0.42	0.06	3.7	2.15	0.008	0.008	472.2162	0.1527	0.1466693	9.044604	5.2556482	0.0195559	0.0195559	1154.3266	0.3732732
	Push Boat	380.00	8.00	22.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		9.2890527	42.309342	41.059696	1.1222971	0	4713.3649	0
	Barge	0.00	8.00	22.00		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	22.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.1391146	0.763623	0.9725103	0.0456537	0.0456537	122.38189	0.0124902
Furnish and Install Wood Stringers (4x12 @ 2' OC)																			
	Crane, 100 ton	205.00	8.00	27.60	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.2893913	9.4052188	4.6664355	0.0289391	0.0289391	1710.8411	0.553461
	Push Boat	380.00	8.00	27.60	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		11.653539	53.078993	51.511255	1.4079727	0	5913.1305	0
	Barge	0.00		27.60		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	27.60	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.1745256	0.9579998	1.2200583	0.0572747	0.0572747	153.53364	0.0156695
Furnish and Wood Decking (3x12)																			
	Crane, 100 ton	205.00	8.00	41.40	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.434087	14.107828	6.9996532	0.0434087	0.0434087	2566.2617	0.8301914
	Pile, Hammer, D46	120.00	8.00	41.40	0.42	0.06	3.7	2.15	0.008	0.008	472.2162	0.1527	0.2760049	17.0203	9.8901744	0.0368006	0.0368006	2172.2328	0.7024324
	Push Boat	380.00	8.00	41.40	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		17.480308	79.618489	77.266883	2.1119591	0	8869.6957	0
	Barge	0.00		41.40		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	41.40	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.2617884	1.4369996	1.8300875	0.085912	0.085912	230.30047	0.0235042
Furnish and Install Floats (13- EA, L=12' x 4')																			
	Crane, 100 ton	205.00	8.00	39.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.4089226	13.289983	6.5938762	0.0408923	0.0408923	2417.4929	0.7820644
	Push Boat	380.00	8.00	39.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		16.466957	75.002925	72.787643	1.9895267	0	8355.5105	0
	Barge	0.00		39.00		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	39.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.2466123	1.3536952	1.7239955	0.0809316	0.0809316	216.94971	0.0221417
Furnish and Install Pile Collars																			
	Crane, 100 ton	205.00	8.00	45.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.4718337	15.334596	7.6083187	0.0471834	0.0471834	2789.4149	0.902382
	Push Boat	380.00	8.00	45.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		19.000335	86.541836	83.985742	2.2956077	0	9640.9736	0
	Barge	0.00		45.00		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	45.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.2845526	1.5619561	1.9892206	0.0933826	0.0933826	250.32659	0.0255481
Furnish and Install Hand Rail																			
	Crane, 100 ton	205.00	8.00	8.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.0838815	2.7261504	1.35259	0.0083882	0.0083882	495.89598	0.1604235
	Push Boat	380.00	8.00	8.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		3.3778374	15.385215	14.930799	0.408108	0	1713.9509	0
	Barge	0.00		8.00		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	8.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.0505871	0.2776811	0.3536401	0.0166014	0.0166014	44.502506	0.0045419
	Port Welding Machine, 300 amp	26.00	8.00	8.00	0.45	0.12	4.1	4.55	0.128	0.128	568.299	0.084	0.0247623	0.8460467	0.9389054	0.0264132	0.0264132	117.27012	0.0173336
Gangway (1-EA, 80' x 6')																			
	Crane, 100 ton	205.00	8.00	4.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.0419408	1.3630752	0.676295	0.0041941	0.0041941	247.94799	0.0802117
	Push Boat	380.00	8.00	4.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		1.6889187	7.6926077	7.4653993	0.204054	0	856.97543	0
	Barge	0.00		4.00		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	4.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.0252936	0.1388405	0.17682	0.0083007	0.0083007	22.251253	0.0022709

Table 28. RPD Shoreline Park - Over/Near Water

ITEM DESCRIPTION	Equipment Type	Size (HP)	Daily Eq hrs	Construction Duration	Load Factor	Emission Factors (g/bhp-hr)							Emissions (lbs/duration)						
						ROG	CO	NOx	PM10	PM.2.5	CO2	CH4	ROG	CO	NOx	PM10	PM.2.5	CO2	CH4
Floating Dock																			
square, L=80'																			
	Truck - Semi	380.00	2.00	2.00	0.38	0.08	2.6	1.29	0.008	0.008	474.5787	0.1535	0.0509356	1.6554084	0.8213372	0.0050936	0.0050936	302.16214	0.0977328
	Crane, 100 ton	205.00	8.00	2.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.0209704	0.6815376	0.3381475	0.002097	0.002097	123.97399	0.0401059
Install Concrete Piles																			
	Crane, 100 ton	205.00	8.00	22.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.2306743	7.4969135	3.7196225	0.0230674	0.0230674	1363.7139	0.4411645
	Pile, Hammer, D46	120.00	8.00	22.00	0.42	0.06	3.7	2.15	0.008	0.008	472.2162	0.1527	0.1466693	9.044604	5.2556482	0.0195559	0.0195559	1154.3266	0.3732732
	Push Boat	380.00	8.00	22.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		9.2890527	42.309342	41.059696	1.1222971		4713.3649	0
	Barge	0.00	8.00	22.00	0	0	0	0	0		0		0	0	0	0		0	0
	Small Generator, 3500 w	6.00	8.00	22.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.1391146	0.763623	0.9725103	0.0456537	0.0456537	122.38189	0.0124902
Furnish and Wood Decking (3x12)																			
	Crane, 100 ton	205.00	8.00	93.15	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.9766958	31.742613	15.74922	0.0976696	0.0976696	5774.0888	1.8679307
	Pile, Hammer, D46	120.00	8.00	93.15	0.42	0.06	3.7	2.15	0.008	0.008	472.2162	0.1527	0.621011	38.295675	22.252892	0.0828015	0.0828015	4887.5239	1.5804729
	Push Boat	380.00	8.00	93.15	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		39.330694	179.1416	173.85049	4.751908	0	19956.815	0
	Barge	0.00		93.15	0	0	0	0	0		0		0	0	0	0		0	0
	Small Generator, 3500 w	6.00	8.00	93.15	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.589024	3.2332492	4.1176969	0.193302	0.193302	518.17605	0.0528845
Furnish and Install Float , 1 ea, 90 X 120																			
	Crane, 100 ton	205.00	8.00	8.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.0838815	2.7261504	1.35259	0.0083882	0.0083882	495.89598	0.1604235
	Push Boat	380.00	8.00	8.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		3.3778374	15.385215	14.930799	0.408108	0	1713.9509	0
	Barge	0.00		8.00	0	0	0	0	0		0		0	0	0	0		0	0
	Small Generator, 3500 w	6.00	8.00	8.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.0505871	0.2776811	0.3536401	0.0166014	0.0166014	44.502506	0.0045419
Furnish and Install Pile Collars																			
	Crane, 100 ton	205.00	8.00	8.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.0838815	2.7261504	1.35259	0.0083882	0.0083882	495.89598	0.1604235
	Push Boat	380.00	8.00	8.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		3.3778374	15.385215	14.930799	0.408108	0	1713.9509	0
	Barge	0.00		8.00	0	0	0	0	0		0		0	0	0	0		0	0
	Small Generator, 3500 w	6.00	8.00	8.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.0505871	0.2776811	0.3536401	0.0166014	0.0166014	44.502506	0.0045419
Furnish and Install Hand Rail																			
	Crane, 100 ton	205.00	8.00	9.12	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.095625	3.1078114	1.5419526	0.0095625	0.0095625	565.32142	0.1828827
	Push Boat	380.00	8.00	9.12	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		3.8507346	17.539145	17.02111	0.4652432	0	1953.904	0
	Barge	0.00		9.12	0	0	0	0	0		0		0	0	0	0		0	0
	Small Generator, 3500 w	6.00	8.00	9.12	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.0576693	0.3165564	0.4031497	0.0189255	0.0189255	50.732856	0.0051777
	Port Welding Machine, 300 amp	26.00	8.00	9.12	0.45	0.12	4.1	4.55	0.128	0.128	568.299	0.084	0.0282291	0.9644932	1.0703522	0.030111	0.030111	133.68793	0.0197603

Table 29. 900 Innes - Over/Near Water

ITEM DESCRIPTION	EQUIPMENT TYPE	HP	DAILY EQ HRS	NSTRUCTION DURATI	Load Factor	Emission Factors (g/bhp-hr)							Emissions (lbs/duration)						
						ROG	CO	NOx	PM10	PM.2.5	CO2	CH4	ROG	CO	NOx	PM10	PM.2.5	CO2	CH4
Marsh Planting																			
Marsh Plants																			
	Case 580 tractor loader bh	80.00	8.00	36.60	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.2627242	8.8370871	5.1111801	0.0191072	0.0191072	1160.4165	0.3670974
	Flatbed Truck	200.00	8.00	36.60	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.4905907	15.944197	7.9107744	0.0490591	0.0490591	2944.5883	0.931509
Furnish and Install DG (Assume 6 Inches Thick)(Includes Redwood Hea																			
	Case 580 tractor loader bh	80.00	8.00	9.40	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.0674756	2.2696344	1.3127075	0.0049073	0.0049073	298.03048	0.0942818
	Flatbed Truck	200.00	8.00	9.40	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.1259987	4.0949576	2.031729	0.0125999	0.0125999	756.26039	0.23924
Gravel Beach (T=1')																			
Gravel	End Dump Truck, 10 cy	400.00	8.00	1.65	0.38	0.08	2.6	1.29	0.008	0.008	485.3832	0.1536	0.0442336	1.4375915	0.7132665	0.0044234	0.0044234	268.37798	0.0849285
Gravel	Cat 14 H Grader	259.00	8.00	1.65	0.41	0.08	2.6	1.29	0.008	0.008	482.5879	0.1527	0.0309024	1.0043279	0.4983011	0.0030902	0.0030902	186.41404	0.058985
Retaining Wall (H=10', L=570')																			
	Forklift, 6T	135.00	8.00	162.86	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	0.5816429	35.86798	20.842204	0.0775524	0.0775524	4678.3236	1.4802812
	Flatbed Truck	200.00	8.00	162.86	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	2.1829561	70.946074	35.200167	0.2182956	0.2182956	13102.384	4.1448879
	Small Generator, 3500 w	6.00	8.00	162.86	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	1.0553157	5.6782997	7.3601094	0.3570857	0.3570857	905.94386	0.0940538
	Concrete Truck 8 CY	235.00		32.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.5039948	16.37983	8.1269158	0.0503995	0.0503995	3025.0416	0.9569601
Water Feature																			
	Forklift, 6T	135.00	8.00	29.31	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	0.1046957	6.4562363	3.7515968	0.0139594	0.0139594	842.09824	0.2664506
	Flatbed Truck	200.00	8.00	29.31	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.3929321	12.770293	6.3360301	0.0392932	0.0392932	2358.4291	0.7460798
	Small Generator, 3500 w	6.00	8.00	29.31	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.1899568	1.0220939	1.3248197	0.0642754	0.0642754	163.0699	0.0169297
	Concrete Truck 8 CY	235.00		3.80	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.0598494	1.9451049	0.9650713	0.0059849	0.0059849	359.22368	0.113639
	Case 580 tractor loader bh	80.00	8.00	4.10	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.0294596	0.9909127	0.5731225	0.0021425	0.0021425	130.11884	0.041163
Concrete Steps																			
	Forklift, 6T	135.00	8.00	84.86	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	0.3030666	18.689105	10.859885	0.0404089	0.0404089	2437.6528	0.7713044
	Flatbed Truck	200.00	8.00	84.86	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	1.137435	36.966638	18.34114	0.1137435	0.1137435	6827.0315	2.1597048
	Small Generator, 3500 w	6.00	8.00	84.86	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.549875	2.958693	3.8350044	0.1860604	0.1860604	472.04443	0.049007
	Concrete Truck 8 CY	235.00		3.80	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.0598494	1.9451049	0.9650713	0.0059849	0.0059849	359.22368	0.113639
	Case 580 tractor loader bh	80.00	8.00	11.88	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.0852777	2.8684315	1.6590388	0.006202	0.006202	376.65979	0.1191562
Floating Pier																			
Furnish and Deliver Concrete Prestressed Piles - 24 Ea																			
	Truck - Semi	380.00	2.00	6.00	0.38	0.08	2.6	1.29	0.008	0.008	485.3832	0.1536	0.1528069	4.9662252	2.4640117	0.0152807	0.0152807	927.12395	0.2933893
	Crane, 100 ton	205.00	8.00	6.00	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.0629112	2.0446128	1.0144425	0.0062911	0.0062911	380.18914	0.1203176
Install Concrete Piles																			
	Crane, 100 ton	205.00	8.00	22.00	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.2306743	7.4969135	3.7196225	0.0230674	0.0230674	1394.0268	0.4411645
	Pile, Hammer, D46	120.00	8.00	22.00	0.42	0.06	3.7	2.15	0.008	0.008	482.2177	0.1526	0.1466693	9.044604	5.2556482	0.0195559	0.0195559	1178.7752	0.3730288
	Push Boat	380.00	8.00	22.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		9.2890527	42.309342	41.059696	1.1222971		4713.3649	
	Barge	0.00	8.00	22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	22.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.1425602	0.7670686	0.9942604	0.0482379	0.0482379	122.38189	0.0127055
Furnish and Install Wood Stringers (4x12 @ 2' OC)																			
	Crane, 100 ton	205.00	8.00	5.01	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.0525308	1.7072517	0.8470595	0.0052531	0.0052531	317.45793	0.1004652
	Push Boat	380.00	8.00	5.01	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		2.1153706	9.6349911	9.3504126	0.2555777		1073.3617	
	Barge	0.00		5.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	5.01	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.0324648	0.1746824	0.2264202	0.0109851	0.0109851	27.869694	0.0028934
Furnish and Wood Decking (3x12)																			
	Crane, 100 ton	205.00	8.00	7.52	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.0787962	2.5608775	1.2705892	0.0078796	0.0078796	476.1869	0.1506978
	Pile, Hammer, D46	120.00	8.00	7.52	0.42	0.06	3.7	2.15	0.008	0.008	482.2177	0.1526	0.0501009	3.0895545	1.7952817	0.0066801	0.0066801	402.65888	0.1274232
	Push Boat	380.00	8.00	7.52	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		3.173056	14.452487	14.025619	0.3833665		1610.0426	
	Barge	0.00		7.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	7.52	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.0486973	0.2620236	0.3396303	0.0164776	0.0164776	41.804541	0.0043401

ITEM DESCRIPTION	EQUIPMENT TYPE	HP	DAILY EQ HRS	NSTRUCTION DURATI	Load Factor	Emission Factors (g/bhp-hr)							Emissions (lbs/duration)						
						ROG	CO	NOx	PM10	PM.2.5	CO2	CH4	ROG	CO	NOx	PM10	PM.2.5	CO2	CH4
Furnish and Install Floats (19- EA, L=6' x 4')																			
	Crane, 100 ton	205.00	8.00	57.00	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.597656	19.423821	9.6372037	0.0597656	0.0597656	3611.7968	1.1430172
	Push Boat	380.00	8.00	57.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		24.067091	109.61966	106.38194	2.9077698		12211.9	
	Barge	0.00		57.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	57.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.3693605	1.9874049	2.5760383	0.12498	0.12498	317.08035	0.0329188
Furnish and Install Pile Collars																			
	Crane, 100 ton	205.00	8.00	22.00	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.2306743	7.4969135	3.7196225	0.0230674	0.0230674	1394.0268	0.4411645
	Push Boat	380.00	8.00	22.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		9.2890527	42.309342	41.059696	1.1222971		4713.3649	
	Barge	0.00		22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	22.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.1425602	0.7670686	0.9942604	0.0482379	0.0482379	122.38189	0.0127055
Furnish and Install Hand Rail																			
	Crane, 100 ton	205.00	8.00	5.08	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.0532648	1.7311055	0.8588946	0.0053265	0.0053265	321.89347	0.1018689
	Push Boat	380.00	8.00	5.08	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		2.1449267	9.7696117	9.4810571	0.2591486		1088.3588	
	Barge	0.00		5.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	5.08	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.0329184	0.1771231	0.2295838	0.0111386	0.0111386	28.259091	0.0029338
	Port Welding Machine, 300 amp	26.00	8.00	5.08	0.45	0.12	4.1	4.55	0.128	0.128	568.299	0.095	0.0157241	0.5372396	0.596205	0.0167724	0.0167724	74.466524	0.0124482
Gangway (2-EA, 80' x 6')																			
	Crane, 100 ton	205.00	8.00	8.00	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.0838815	2.7261504	1.35259	0.0083882	0.0083882	506.91885	0.1604235
	Push Boat	380.00	8.00	8.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		3.3778374	15.385215	14.930799	0.408108		1713.9509	
	Barge	0.00		8.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	8.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.0518401	0.278934	0.3615492	0.0175411	0.0175411	44.502506	0.0046202
Existing Boat Yard Concrete Removal																			
Remove Concrete Pad																			
	Portable Air Compressor, 450 CFM	150.00	8.00	74.00	0.48	0.06	3.7	2.15	0.008	0.008	568.299	0.101	0.7047743	43.461084	25.254414	0.0939699	0.0939699	6675.3758	1.1863701
	Cat 330 DL Excavator	268.00	$8	74.00	0.38	0.08	2.6	1.29	0.008	0.008	481.2361	0.1523	1.3291522	43.197446	21.432579	0.1329152	0.1329152	7995.4502	2.5303735
	On Highway Water Tanker	225.00		74.00															
	Cat H160 DS Hyd Impact Brkrs			74.00															
Remove Boat Ramp Rail																			
	Forklift, 6T	135.00	8.00	14.00	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	0.0500009	3.0833877	1.7916983	0.0066668	0.0066668	402.17168	0.1272522
	Flatbed Truck	200.00	8.00	14.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.1876576	6.098873	3.0259793	0.0187658	0.0187658	1126.3453	0.3563149
Marine Utilities																			
Electrical																			
	Flatbed Truck	200.00	8.00	30.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.4021235	13.069014	6.4842413	0.0402123	0.0402123	2413.597	0.763532
	Case 580 tractor loader bh	80.00	8.00	30.00	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.2153477	7.243514	4.1894919	0.0156617	0.0156617	951.16109	0.3008995
Water																			
	Flatbed Truck	200.00	8.00	30.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.4021235	13.069014	6.4842413	0.0402123	0.0402123	2413.597	0.763532
	Case 580 tractor loader bh	80.00	8.00	30.00	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.2153477	7.243514	4.1894919	0.0156617	0.0156617	951.16109	0.3008995
Storm Water Outfalls (24" diameter, 1 EA)																			
	Cat 330 L excavator	268.00	8.00	40.00	0.38	0.08	2.6	1.29	0.008	0.008	481.2361	0.1523	0.7184606	23.349971	11.585178	0.0718461	0.0718461	4321.865	1.3677694
	Flatbed Truck	200.00	8.00	40.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.5361647	17.425351	8.6456551	0.0536165	0.0536165	3218.1293	1.0180426
	Small Generator, 3500 w	6.00	8.00	40.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.2592003	1.3946701	1.8077462	0.0877053	0.0877053	222.51253	0.0231009
	Hand Held Vib Plate Comp, 25"	11.00	8.00	20.00	0.43	0.12	4.1	4.55	0.128	0.128	568.299	0.059	0.0250269	0.8550856	0.9489365	0.0266954	0.0266954	118.523	0.0123049

ITEM DESCRIPTION	EQUIPMENT TYPE	HP	DAILY EQ HRS	CONSTRUCTION DURATION	Load Factor	Emission Factors (g/bhp-hr)							Emissions (lbs/duration)						
						ROG	CO	NOx	PM10	PM.2.5	CO2	CH4	ROG	CO	NOx	PM10	PM.2.5	CO2	CH4
Improvements to Exsiting Features to Remain																			
Concrete Retaining Wall Resurfacing/Repair																			
	Small Generator, 3500 w	6.00	8.00	18.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.1166402	0.6276015	0.8134858	0.0394674	0.0394674	100.13064	0.0103954
Concrete Deck																			
	Forklift, 6T	135.00	8.00	331.71	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	1.1847148	73.057411	42.452279	0.157962	0.157962	9529.0065	3.0150991
	Flatbed Truck	200.00	8.00	331.71	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	4.4463369	144.50595	71.697183	0.4446337	0.4446337	26687.487	8.4424822
	Small Generator, 3500 w	6.00	8.00	331.71	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	2.1495114	11.5658	14.991381	0.7273271	0.7273271	1845.2646	0.1915728
	Concrete Truck 8 CY	235.00		21.50	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.3386215	11.005199	5.4602716	0.0338621	0.0338621	2032.4498	0.6429576
New retaining wall (H= 5', L=160')																			
	Forklift, 6T	135.00	8.00	22.86	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	0.0816341	5.0341024	2.9252217	0.0108845	0.0108845	656.60682	0.2077588
	Flatbed Truck	200.00	8.00	22.86	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.3063798	9.9573437	4.9403744	0.030638	0.030638	1838.931	0.5817387
	Small Generator, 3500 w	6.00	8.00	22.86	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.1481145	0.7969543	1.0329978	0.0501173	0.0501173	127.15002	0.0132005
	Concrete Truck 8 CY	235.00		3.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.0472495	1.5356091	0.7618984	0.004725	0.004725	283.59765	0.089715
Switchback Bike Ramp																			
Frunish and Install Concrete Deck																			
	Forklift, 6T	135.00	8.00	108.00	0.2	0.06	3.7	2.15	0.008	0.008	482.5975	0.1527	0.3857211	23.786134	13.821672	0.0514295	0.0514295	3102.4672	0.9816602
	Flatbed Truck	200.00	8.00	108.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	1.4476446	47.048449	23.343269	0.1447645	0.1447645	8688.9491	2.7487151
	Small Generator, 3500 w	6.00	8.00	108.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.6998409	3.7656093	4.8809147	0.2368042	0.2368042	600.78382	0.0623725
	Concrete Truck 8 CY	235.00		7.00	0.38	0.08	2.6	1.29	0.008	0.008	480.1703	0.1519	0.1102489	3.5830879	1.7777628	0.0110249	0.0110249	661.72784	0.209335
	Case 580 tractor loader bh	80.00	8.00	15.12	0.37	0.11	3.7	2.14	0.008	0.008	485.8548	0.1537	0.1085352	3.6507311	2.1115039	0.0078935	0.0078935	479.38519	0.1516533
Furnish and deliver concrete piles (Dia. = 16", L = 80', 18 EA																			
	Truck - Semi	380.00	2.00	4.50	0.38	0.08	2.6	1.29	0.008	0.008	485.3832	0.1536	0.1146052	3.7246689	1.8480088	0.0114605	0.0114605	695.34296	0.220042
	Crane, 100 ton	205.00	8.00	4.50	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.0471834	1.5334596	0.7608319	0.0047183	0.0047183	285.14186	0.0902382
Install Concrete Piles																			
	Crane, 100 ton	205.00	8.00	22.00	0.29	0.08	2.6	1.29	0.008	0.008	483.4616	0.153	0.2306743	7.4969135	3.7196225	0.0230674	0.0230674	1394.0268	0.4411645
	Pile, Hammer, D46	120.00	8.00	22.00	0.42	0.06	3.7	2.15	0.008	0.008	482.2177	0.1526	0.1466693	9.044604	5.2556482	0.0195559	0.0195559	1178.7752	0.3730288
	Push Boat	380.00	8.00	22.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		9.2890527	42.309342	41.059696	1.1222971		4713.3649	
	Barge	0.00	8.00	22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	22.00	0.74	0.662	3.562	4.617	0.224	0.224	568.299	0.059	0.1425602	0.7670686	0.9942604	0.0482379	0.0482379	122.38189	0.0127055

Table 30. 700 Innes - Over/Near Water

ITEM DESCRIPTION	Equipment Type	Size (HP)	Daily Eq hrs	uction Du Hrs	Load Factor	Emission Factors (g/bhp-hr)							Emissions (lbs/duration)						
						ROG	CO	NOx	PM10	PM.2.5	CO2	CH4	ROG	CO	NOx	PM10	PM.2.5	CO2	CH4
Boardwalk																			
Furnish and Deliver Concrete Prestressed Piles - 104 Ea																			
	Truck - Semi	380.00	2.00	2.00	0.38	0.08	2.6	1.29	0.008	0.008	474.5787	0.1535	0.050935643	1.6554084	0.8213372	0.0050936	0.0050936	302.16214	0.0977328
	Crane, 100 ton	205.00	8.00	2.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.020970387	0.6815376	0.3381475	0.002097	0.002097	123.97399	0.0401059
Install Concrete Piles																			
	Crane, 100 ton	205.00	8.00	32.00	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.3355262	10.904601	5.41036	0.0335526	0.0335526	1983.5839	0.6416939
	Pile, Hammer, D46	120.00	8.00	32.00	0.42	0.06	3.7	2.15	0.008	0.008	472.2162	0.1527	0.213337096	13.155788	7.6445793	0.0284449	0.0284449	1679.0205	0.5429429
	Push Boat	380.00	8.00	32.00	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		13.51134941	61.540861	59.723194	1.6324322	0	6855.8035	0
	Barge	0.00	8.00	32.00		0	0	0	0		0		0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	32.00	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.202348542	1.1107244	1.4145604	0.0664054	0.0664054	178.01002	0.0181675
Furnish and Install Wood Stringers (4x12 @ 2' OC)																			
	Crane, 100 ton	205.00	8.00	17.50	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.18349089	5.9634539	2.9587906	0.0183491	0.0183491	1084.7725	0.3509263
	Push Boat	380.00	8.00	17.50	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		7.389019207	33.655159	32.661122	0.8927363	0	3749.2675	0
	Barge	0.00		17.50		0	0	0	0		0		0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	17.50	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.110659359	0.6074274	0.7735877	0.0363155	0.0363155	97.349231	0.0099354
Furnish and Wood Decking (3x12)																			
	Crane, 100 ton	205.00	8.00	24.09	0.29	0.08	2.6	1.29	0.008	0.008	472.9488	0.153	0.252588317	8.2091203	4.0729866	0.0252588	0.0252588	1493.2668	0.4830752
	Pile, Hammer, D46	120.00	8.00	24.09	0.42	0.06	3.7	2.15	0.008	0.008	472.2162	0.1527	0.160602833	9.9038413	5.7549348	0.0214137	0.0214137	1263.9877	0.4087342
	Push Boat	380.00	8.00	24.09	0.45	0.4222297	1.9231519	1.8663498	0.0510135		214.24386		10.17151273	46.32873	44.960367	1.2289153	0	5161.1345	0
	Barge	0.00		24.09		0	0	0	0		0		0	0	0	0	0	0	0
	Small Generator, 3500 w	6.00	8.00	24.09	0.74	0.646	3.546	4.516	0.212	0.212	568.299	0.058	0.152330512	0.8361672	1.0648987	0.0499908	0.0499908	134.00817	0.0136767

Table 31. Operational Emissions - Residential Project

BUILD Hamman, Hillside Cove

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	7.55	0.11	8.45	0.01		0.39	0.39		0.39	0.39
Energy	0.07	0.64	0.36	0.00		0.05	0.05		0.05	0.05
Mobile	1.78	6.33	16.03	0.05	4.15	0.06	4.21	1.12	0.05	1.17
Stationary	0.08	0.56	0.21			0.01	0.01		0.01	0.01
Waste						0.00	0.00		0.00	0.00
Water						0.00	0.00		0.00	0.00
Total	9.48	7.63	25.05	0.06	4.15	0.51	4.66	1.12	0.51	1.63

RPD 900 Innes

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.03	0.09	0.22	0.00	0.05	0.00	0.05	0.01	0.00	0.02
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.09	0.23	0.00	0.05	0.00	0.05	0.01	0.00	0.02

RPD India Basin Shoreline Park

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.03	0.10	0.22	0.00	0.04	0.00	0.04	0.01	0.00	0.01
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.10	0.22	0.00	0.04	0.00	0.04	0.01	0.00	0.01

BUILD Big Green

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stationary	0.05	0.33	0.13			0.01	0.01		0.01	0.01
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.35	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01

BUILD Shoreline Wetlands

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BUILD Flats and Earl Construction

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	3.89	0.06	4.71	0.00	0.00	0.22	0.22	0.00	0.22	0.22
Energy	0.03	0.24	0.11	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Mobile	0.74	2.50	6.05	0.02	1.39	0.02	1.41	0.37	0.02	0.39
Stationary	0.05	0.33	0.13			0.01	0.01		0.01	0.01
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.70	3.13	10.99	0.02	1.39	0.27	1.65	0.37	0.27	0.64

BUILD Beach

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
					tons/yr					
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00
Water						0.00	0.00		0.00	0.00
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
Area	63.05	0.94	72.15	0.05	0.00	3.37	3.37	0.00	3.37	3.37
Energy	0.56	4.88	2.62	0.03	0.00	0.39	0.39	0.00	0.39	0.39
Mobile	14.21	49.69	124.00	0.37	30.87	0.43	31.30	8.32	0.41	8.72
Stationary	0.97	6.69	2.52	0.00	0.00	0.15	0.15	0.00	0.15	0.15
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Operational Emissions - All Properties	14.38	11.35	36.74	0.08	5.63	0.79	6.42	1.52	0.79	2.30
Average Daily	78.79	62.21	201.29	0.44	30.87	4.33	35.20	8.32	4.31	12.62

Table 32. Operational Emissions - Commercial Variant

BUILD Hamman, Hillside Cove

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	5.51	0.01	0.61	0.00		0.03	0.03		0.03	0.03
Energy	0.10	0.91	0.75	0.01		0.07	0.07		0.07	0.07
Mobile	3.85	12.64	31.68	0.08	6.27	0.12	6.39	1.69	0.11	1.80
Stationary	0.10	0.67	0.25			0.01	0.01		0.01	0.01
Waste						0.00	0.00		0.00	0.00
Water						0.00	0.00		0.00	0.00
Total	9.56	14.22	33.29	0.09	6.27	0.23	6.50	1.69	0.22	1.91

RPD 900 Innes

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.03	0.09	0.22	0.00	0.05	0.00	0.05	0.01	0.00	0.02
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.09	0.23	0.00	0.05	0.00	0.05	0.01	0.00	0.02

RPD India Basin Shoreline Park

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.03	0.10	0.22	0.00	0.04	0.00	0.04	0.01	0.00	0.01
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.10	0.22	0.00	0.04	0.00	0.04	0.01	0.00	0.01

BUILD Big Green

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stationary	0.05	0.33	0.13	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.35	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01

BUILD Shoreline Wetlands

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BUILD Flats and Earl Construction

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	3.73	0.06	4.71	0.00		0.22	0.22		0.22	0.22
Energy	0.03	0.24	0.11	0.00		0.02	0.02		0.02	0.02
Mobile	0.69	2.30	5.67	0.02	1.39	0.02	1.40	0.37	0.02	0.39
Stationary	0.05	0.33	0.13	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Waste						0.00	0.00		0.00	0.00
Water						0.00	0.00		0.00	0.00
Total	4.49	2.94	10.61	0.02	1.39	0.27	1.65	0.37	0.26	0.64

BUILD Beach

Category	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
					tons/yr					
Area	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00
Water						0.00	0.00		0.00	0.00
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
Area	50.97	0.38	29.15	0.02	0.00	1.36	1.36	0.00	1.36	1.36
Energy	0.71	6.37	4.75	0.04	0.00	0.49	0.49	0.00	0.49	0.49
Mobile	25.30	83.20	207.69	0.54	42.48	0.75	43.23	11.45	0.70	12.15
Stationary	1.06	7.30	2.75	0.00	0.00	0.16	0.16	0.00	0.16	0.16
Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Operational Emissions - All Properties	14.24215	17.74866	44.59385	0.10918	7.75334	0.502438	8.255688	2.08898	0.494028	2.583028
Average Daily	78.04	97.25	244.35	0.60	42.48	2.75	45.24	11.45	2.71	14.15

Table 33. Trip Generation - Residential Project

	Size	Size	Daily Person Trips	PM Peak Hour as % of Daily	PM Peak Hour Auto Trips	Daily Auto Trips	PM Peak Hour Auto Trips (TI)	Daily Auto Trips (TI)
Residential	198 studio units	198	1,485	17%				
	236 1-bedroom units	236	1,770	17%	790	4566	695	4017
	805 2+ bedroom units	805	8,050	17%				
Commercial	174,930 sf General Office	174,930	3,166	9%	125	1471	109	1282
Retail	15,000 sf Restaurant	15,000	3,000	14%				
	20,000 sf Café	20,000	4,000	14%	779	8400	694	7484
	25,000 sf Supermarket	25,000	7,425	7%				
	40,400 sf General Retail	40,400	6,060	9%				
Educational	450 students	450	1,890	16%	208	1279	190	1168
	95 staff	95	190	25%				
Open Space	5.4 acres	5	131	26%	19	73	19	73
Open Space	5.6 acres of Shoreline Pk	6	137	26%	20	77		
	1.8 acres of 900 Innes Ave	2	44	26%	7	27		
	6.2 acres of Open Space	6	152	26%	21	81		

Table 34. Trip Generation - Maximum Commercial Variant

	Size	Size	Daily Person Trips	PM Peak Hour as % of Daily	PM Peak Hour Auto Trips	Daily Auto Trips	PM Peak Hour Auto Trips (TI)	Daily Auto Trips (TI)
Residential	50 studio units	50	375	17%				
	125 1-bedroom units	125	938	17%	332	1919	294	1699
	324 2+ bedroom units	324	3,240	17%				
Commercial	85,000 sf Clinical Use	85,000	3,681	15%				
	100,000 sf Administrative	100,000	3,640	16%	1048	10277	923	9051
	400,000 sf General Office & 275,000 s	675,000	12,218	9%				
Retail	25,000 sf Restaurant	25,000	5,000	14%				
	20,000 sf Café	20,000	4,000	14%	1079	11423	965	10216
	25,000 sf Supermarket	25,000	7,425	7%				
	70,000 sf General Retail	70,000	10,500	9%				
Educational	450 students	450	1,890	16%	208	1279	190	1168
	95 staff	95	190	25%				
Open Space	5.4 acres	5	131	26%	19	73	58	224
Open Space	5.6 acres of Shoreline Pk	6	137	26%	20	77		
	1.8 acres of 900 Innes Ave	2	44	26%	7	27		
	6.2 acres of Open Space	6	152	26%	21	81		

Table 35
Proposed Residential Project
Average Trip Distance

		Miles			Trip %			Trip Purpose %								
	Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	Average Trip Distance	Average Trip Distance	Average Trip Distance	Weighted Average Trip Distance	Annual VMT	Percentage of Total VMT
900 Innes	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	2242.076	0.00014885
900 Innes	General Office Building	6.62	6.62	6.62	33	48	19	77	19	4	2.1846	3.1776	1.2578	6.62	139265.4	0.009245716
Big Green	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	2260.206	0.000150053
Shoreline Park	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	5789.512	0.000384361
Shoreline Park	General Office Building	6.62	6.62	6.62	33	48	19	77	19	4	2.1846	3.1776	1.2578	6.62	101133.2	0.006714151
Shoreline Park	Other Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline Park	Other Non-Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline Wetlands	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	3100.229	0.000205822
Flats Earl	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	586.2032	3.89175E-05
Flats Earl	Condo/Townhouse High Rise	6.7	6.7	6.7	31	15	54	86	11	3	2.077	1.005	3.618	6.7	3547913	0.235542986
Flats Earl	Enclosed Parking with Elevator	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Flats Earl	Other Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Flats Earl	Other Non-Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Flats Earl	Regional Shopping Center	0.28	0.28	0.28	16.3	64.7	19	54	35	11	0.04564	0.18116	0.0532	0.28	160575.8	0.010660496
Beach and Pier	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	1414.14	9.38836E-05
Hamman Hillside	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	1051.54	6.98109E-05
Hamman Hillside	Condo/Townhouse High Rise	6.7	6.7	6.7	31	15	54	86	11	3	2.077	1.005	3.618	6.7	6360673	0.422279768
Hamman Hillside	Elementary School	9.5	1.14	7.3	65	30	5	63	25	12	6.175	0.342	0.365	6.882	1588805	0.10547942
Hamman Hillside	Enclosed Parking with Elevator	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Hamman Hillside	General Office Building	6.62	6.62	6.62	33	48	19	77	19	4	2.1846	3.1776	1.2578	6.62	2900202	0.192542027
Hamman Hillside	Other Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Hamman Hillside	Other Non-Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Hamman Hillside	Regional Shopping Center	0.28	0.28	0.28	16.3	64.7	19	54	35	11	0.04564	0.18116	0.0532	0.28	247687.1	0.016443739
															15062698	1

Weighted Average Trip Distance	6.52
Project One-Way Trip Distance	1.32
Percentage	20.24%

Note: Project one-way trip distance based on maximum travel distance along modeled roadways.

Table 36
Maximum Commercial Variant
Average Trip Distance

		Miles			Trip %			Trip Purpose %			Average Trip Distance	Average Trip Distance	Average Trip Distance	Weighted Average Trip Distance	Annual VMT	Percentage of Total VMT
	Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by						
900 Innes	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	2242.076113	0.000108164
900 Innes	General Office Building	6.62	6.62	6.62	33	48	19	77	19	4	2.1846	3.1776	1.2578	6.62	139265.4199	0.006718555
Big Green	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	2260.206108	0.000109039
Shoreline Park	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	5789.511903	0.000279302
Shoreline Park	General Office Building	6.62	6.62	6.62	33	48	19	77	19	4	2.1846	3.1776	1.2578	6.62	101133.2216	0.004878951
Shoreline Park	Other Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline Park	Other Non-Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline Wetlands	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	3100.229234	0.000149564
Flats Earl	City Park	0.55	0.55	0.55	33	48	19	66	28	6	0.1815	0.264	0.1045	0.55	1945.258952	9.38448E-05
Flats Earl	Condo/Townhouse High Rise	6.42	6.42	6.42	31	15	54	86	11	3	1.9902	0.963	3.4668	6.42	3547129.786	0.1711235
Flats Earl	Enclosed Parking with Elevator	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Flats Earl	Other Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Flats Earl	Other Non-Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Flats Earl	Regional Shopping Center	0.28	0.28	0.28	16.3	64.7	19	54	35	11	0.04564	0.18116	0.0532	0.28	157582.0363	0.0076022
Beach and Pier	City Park	0.16	0.16	0.16	33	48	19	66	28	6	0.0528	0.0768	0.0304	0.16	1414.139651	6.82221E-05
Hamman Hillside	City Park	0.55	0.55	0.55	33	48	19	66	28	6	0.1815	0.264	0.1045	0.55	3489.433584	0.00016834
Hamman Hillside	Condo/Townhouse High Rise	6.42	6.42	6.42	31	15	54	86	11	3	1.9902	0.963	3.4668	6.42	447385.7388	0.021583144
Hamman Hillside	Elementary School	9.5	1.14	7.3	65	30	5	63	25	12	6.175	0.342	0.365	6.882	1588804.624	0.076648396
Hamman Hillside	Enclosed Parking with Elevator	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Hamman Hillside	General Office Building	4.66	4.66	4.66	33	48	19	77	19	4	1.5378	2.2368	0.8854	4.66	14265834.62	0.688223917
Hamman Hillside	Other Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Hamman Hillside	Other Non-Asphalt Surfaces	9.5	7.3	7.3	0	0	0	0	0	0	0	0	0	0	0	0
Hamman Hillside	Regional Shopping Center	0.28	0.28	0.28	16.3	64.7	19	54	35	11	0.04564	0.18116	0.0532	0.28	461102.1162	0.022244861
															20728478.42	1

Weighted Average Trip Distance	5.06
Project One-Way Trip Distance	1.32
Percentage	26.10%

Note: Project one-way trip distance based on maximum travel distance along modeled roadways.

Table 37
Proposed Project Traffic - Trip Distribution

Direction													
	SR	SS	SL	WR	WS	WL	NR	NS	NL	ER	ES	EL	Total
1. Third Street/Evans Avenue	0	0	245	183	74	113	133	0	0	0	79	0	827
2. Jennings Street/Evans Avenue	0	12	311	243	370	0	0	0	0	0	456	0	1,392
3. Hunters Point Blvd/Hawes Street	0	797	0	0	0	0	0	622	0	0	0	0	1,419
4. Hunters Point Blvd/Innes Avenue	0	797	0	0	0	0	0	622	110	141	0	0	1,670
5. New Griffith St/Innes Avenue	150	0	4	6	582	0	0	0	0	0	748	190	1,680
6. Arelious Walker Drive/Innes Avenue	260	0	7	13	328	0	0	0	0	0	306	446	1,360
7. Earl Street/Innes Avenue	322	0	7	8	19	0	0	0	0	0	11	302	669

Total Volumes	2. Jennings Street/Evans Avenue	Point Blvd/Hawes Street	4. Hunters Point Blvd/Innes Avenue	Griffith St/Innes Avenue	Walker Drive/Innes Avenue	7. Earl Street/Innes Avenue	Maximum	Percentage
Jennings Street	12						12	0.21%
Evans Avenue/Hunters Point Blvd	1137	1419	1419				1419	25.33%
Hawes Street		0					0	0.00%
Innes Avenue			1670	1680	1360	669	1680	29.99%
New Griffith Street				350			350	6.25%
Aurelious Walker Drive					726		726	12.96%
Earl Street						631	631	11.26%
Roadways SW of Innes Avenue	153						153	2.73%
Roadways SE of Innes Avenue						631	631	11.26%
							5602	100.00%

Variant Traffic

Total Volumes	2. Jennings Street/Evans Avenue	3. Hunters Point Blvd/Hawes Street	4. Hunters Point Blvd/Innes Avenue	5. New Griffith St/Innes Avenue	6. Arelious Walker Drive/Innes Avenue	7. Earl Street/Innes Avenue	Maximum	Percentage
Jennings Street	38						38	0.51%
Evans Avenue/Hunters Point Blvd	1601	1881	1881				1881	25.02%
Hawes Street		0					0	0.00%
Innes Avenue			2213	2224	1814	894	2224	29.58%
New Griffith Street				445			445	5.92%
Aurelious Walker Drive					963		963	12.81%
Earl Street						845	845	11.24%
Roadways SW of Innes Avenue	277						277	3.68%
Roadways SE of Innes Avenue						845	845	11.24%
							7518	100.00%

Table 38. Fleet Mix

Vehicle Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fuel Type	Gas	Gas	Gas	Gas	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Gas	Diesel	Gas
Percentage	0.607015	0.041018	0.19103	0.08757	0.01539	0.00487	0.02715	0.00873	0.00428	0.00462	0.00695	0.00093	0.00046

Note: Conservatively assumes all buses are diesel.

	Percentage
Gas	93.40%
Diesel	6.60%
Total	100.00%

Table 39
Vehicle Emissions by Roadway Segment

Proposed Project Traffic

Sum of CalEEMod Output for Operations Phase at All Properties

Total Volumes	Percentage from Table 37	ROG (tpy)	Fugitive PM2.5 (tpy)	Exhaust PM2.5 (tpy)	Total PM2.5 (tpy)	# Volumes (550 Total)	ROG (tpy)	Fug PM2.5 (tpy)	Exh PM2.5 (tpy)	Total PM2.5 (tpy)
Jennings Street	0.21%	0.524859	0.307196	0.015021	0.322211	8	0.00112	0.00066	0.00003	0.00069
Evans Avenue/Hunters Point Blvd	25.33%					46	0.13295	0.07781	0.00380	0.08162
Hawes Street	0.00%					4	0.00000	0.00000	0.00000	0.00000
Innes Avenue	29.99%					74	0.15740	0.09213	0.00450	0.09663
New Griffith Street	6.25%					3	0.03279	0.01919	0.00094	0.02013
Aurelious Walker Drive	12.96%					6	0.06802	0.03981	0.00195	0.04176
Earl Street	11.26%					39	0.05912	0.03460	0.00169	0.03629
Roadways SW of Innes Avenue	2.73%					327	0.01433	0.00839	0.00041	0.00880
Roadways SE of Innes Avenue	11.26%					43	0.05912	0.03460	0.00169	0.03629

Commercial Variant Traffic

Sum of CalEEMod Output for Operations Phase at All Properties

Total Volumes	Percentage from Table 37	ROG (tpy)	Fugitive PM2.5 (tpy)	Exhaust PM2.5 (tpy)	Total PM2.5 (tpy)	# Volumes (550 Total)	ROG (tpy)	Fug PM2.5 (tpy)	Exh PM2.5 (tpy)	Total PM2.5 (tpy)
Jennings Street	0.51%	1.205009	0.545255	0.03336	0.578633	8	0.00609	0.00276	0.00017	0.00292
Evans Avenue/Hunters Point Blvd	25.02%					46	0.30149	0.13642	0.00835	0.14477
Hawes Street	0.00%					4	0.00000	0.00000	0.00000	0.00000
Innes Avenue	29.58%					74	0.35647	0.16130	0.00987	0.17117
New Griffith Street	5.92%					3	0.07133	0.03227	0.00197	0.03425
Aurelious Walker Drive	12.81%					6	0.15435	0.06984	0.00427	0.07412
Earl Street	11.24%					39	0.13544	0.06128	0.00375	0.06504
Roadways SW of Innes Avenue	3.68%					327	0.04440	0.02009	0.00123	0.02132
Roadways SE of Innes Avenue	11.24%					43	0.13544	0.06128	0.00375	0.06504

Table 40
Comparison of Fehr & Peers VMT with CalEEMod VMT
Max Residential

Land Use	Proposed Land Use		Density		Population		Existing VMT		Daily VMT	Daily Auto Trips by Land Use	Average Vehicle Trip Length
Source:	Project Description		Density		column B*D or B/D		SF-CHAMP		column F*H	Travel Demand Memo	column J/K
Residential	1,239	Households	2.74	residents/HH	3,398	Residents	9.0	VMT/resident	30,583	4,566	6.70
Office	174,930	gsf	3.64	employee/ksf	637	Employees	15.3	VMT/employee	9,742	1,471	6.62
Retail	100,400	gsf	2.86	employee/ksf	287	Employees	8.1	VMT/employee	2,326	8,400	0.28
School					95	Employees	15.3	VMT/employee	1,454	1,279	1.14
Open Space	19	acres	-	-	5	Employees	8.1	VMT/employee	41	259	0.16

Total: **44,105**
Annualization Factor from SFCTA: **317**
Annual VMT: **13,981,261**
CalEEMod VMT from Table 35: **15,062,698**

Max Commercial

Land Use	Proposed Land Use		Density		Population		Existing VMT		Daily VMT	Daily Auto Trips by Land Use	Average Vehicle Trip Length
Source:	Project Description		Density		column B*D or B/D		SF-CHAMP		column F*H	Travel Demand Memo	column J/K
Residential	499	Households	2.74	residents/HH	1369	Residents	9.0	VMT/resident	12,317	1,919	6.42
Office	860,000	gsf	3.64	employee/ksf	3130	Employees	15.3	VMT/employee	47,895	10,277	4.66
Retail	140,000	gsf	2.86	employee/ksf	400	Employees	8.1	VMT/employee	3,243	11,423	0.28
School					95	Employees	15.3	VMT/employee	1,454	1,279	1.14
Open Space	19	acres		-	5	Employees	8.1	VMT/employee	41	259	0.16

Total: **64,950**
Annualization Factor from SFCTA: **317**
Annual VMT: **20,589,032**
CalEEMod VMT from Table 36: **20,728,478**

APPENDIX B – Model Inputs

PM2.5 and Diesel PM Calculations for Modeling

			4056	hrs/yr

2018 Proposed Project

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²) [AERMOD]	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr [HARP]
Grading	GRADE	-	118641.4	1.28E-01	7.73E-03	1.35E-01	6.29E-02	3.81E-03	6.67E-02	6.68E-08	4.05E-09	7.09E-08	15.4600
Building Construction	Phase1C1	-	6818.2	1.66E-02	1.01E-03	1.76E-02	8.19E-03	4.96E-04	8.70E-03	1.51E-07	9.16E-09	1.61E-07	2.0116
Building Construction	Phase1C2	-	2266.4	5.52E-03	3.34E-04	5.86E-03	2.72E-03	1.65E-04	2.89E-03	1.51E-07	9.16E-09	1.61E-07	0.6687
Building Construction	Phase1C3	-	514	1.25E-03	7.58E-05	1.33E-03	6.17E-04	3.74E-05	6.56E-04	1.51E-07	9.16E-09	1.61E-07	0.1516
Building Construction	Phase1C4	-	2464.8	6.00E-03	3.64E-04	6.38E-03	2.96E-03	1.79E-04	3.14E-03	1.51E-07	9.16E-09	1.61E-07	0.7272
Building Construction	Phase1C5	-	2343.5	5.71E-03	3.46E-04	6.06E-03	2.82E-03	1.70E-04	2.99E-03	1.51E-07	9.16E-09	1.61E-07	0.6914
Building Construction	Phase1C6	-	1413.5	3.44E-03	2.09E-04	3.66E-03	1.70E-03	1.03E-04	1.80E-03	1.51E-07	9.16E-09	1.61E-07	0.4170
Building Construction	Phase1C7	-	766.3	1.87E-03	1.13E-04	1.98E-03	9.21E-04	5.57E-05	9.78E-04	1.51E-07	9.16E-09	1.61E-07	0.2261
Building Construction	Phase1C8	-	734.6	1.79E-03	1.08E-04	1.90E-03	8.82E-04	5.34E-05	9.37E-04	1.51E-07	9.16E-09	1.61E-07	0.2167
Building Construction	Phase1C9	-	575.2	1.40E-03	8.49E-05	1.49E-03	6.91E-04	4.18E-05	7.34E-04	1.51E-07	9.16E-09	1.61E-07	0.1697
Road	Trucks	88	-	1.14E-01	3.43E-02	1.48E-01	5.63E-02	1.69E-02	7.32E-02	8.05E-05	2.42E-05	1.05E-04	68.6200
Road	Worker Vehicles	88	-	3.63E-03	1.20E-04	3.75E-03	1.79E-03	5.92E-05	1.85E-03	2.56E-06	8.47E-08	2.65E-06	15.40 Speciate
Road	SUM											1.07E-04	

2019 Proposed Project

											AERMOD	**HARP**	
Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr
Paving	GRADE	-	118641.4	1.27E-01	2.59E-03	1.29E-01	6.24E-02	1.28E-03	6.37E-02	6.62E-08	1.36E-09	6.76E-08	5.1800
Building Construction	Phase1C1	-	6818.2	1.66E-02	2.71E-03	1.93E-02	8.19E-03	1.34E-03	9.53E-03	1.51E-07	2.47E-08	1.76E-07	5.4175
Building Construction	Phase1C2	-	2266.4	5.52E-03	9.00E-04	6.42E-03	2.72E-03	4.44E-04	3.17E-03	1.51E-07	2.47E-08	1.76E-07	1.8008
Building Construction	Phase1C3	-	514	1.25E-03	2.04E-04	1.46E-03	6.17E-04	1.01E-04	7.18E-04	1.51E-07	2.47E-08	1.76E-07	0.4084
Building Construction	Phase1C4	-	2464.8	6.00E-03	9.79E-04	6.98E-03	2.96E-03	4.83E-04	3.44E-03	1.51E-07	2.47E-08	1.76E-07	1.9585
Building Construction	Phase1C5	-	2343.5	5.71E-03	9.31E-04	6.64E-03	2.82E-03	4.59E-04	3.27E-03	1.51E-07	2.47E-08	1.76E-07	1.8621
Building Construction	Phase1C6	-	1413.5	3.44E-03	5.62E-04	4.01E-03	1.70E-03	2.77E-04	1.97E-03	1.51E-07	2.47E-08	1.76E-07	1.1231
Building Construction	Phase1C7	-	766.3	1.87E-03	3.04E-04	2.17E-03	9.21E-04	1.50E-04	1.07E-03	1.51E-07	2.47E-08	1.76E-07	0.6089
Building Construction	Phase1C8	-	734.6	1.79E-03	2.92E-04	2.08E-03	8.82E-04	1.44E-04	1.03E-03	1.51E-07	2.47E-08	1.76E-07	0.5837
Building Construction	Phase1C9	-	575.2	1.40E-03	2.29E-04	1.63E-03	6.91E-04	1.13E-04	8.04E-04	1.51E-07	2.47E-08	1.76E-07	0.4570
900 Innes	RPD1	-	9243	4.10E-03	9.38E-03	1.35E-02	2.02E-03	4.62E-03	6.65E-03	2.76E-08	6.30E-08	9.06E-08	18.7523
900 Innes Offshore	PILE	-	31729	0.00E+00	2.79E-04	2.79E-04	0.00E+00	1.38E-04	1.38E-04	0.00E+00	5.47E-10	5.47E-10	0.5590
Road	Trucks	88	-	1.52E-01	4.31E-02	1.95E-01	7.48E-02	2.13E-02	9.61E-02	1.07E-04	3.04E-05	1.38E-04	86.2200
Road	Worker Vehicles	88	-	2.85E-01	9.54E-03	2.95E-01	1.41E-01	4.70E-03	1.45E-01	2.02E-04	6.74E-06	2.08E-04	1111.42 Speciate
Road	SUM											3.46E-04	

2020 Residential Project

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²) [AERMOD]	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr [HARP]
Building Construction	Phase1C1	-	6818.2	0.00E+00	2.62E-03	2.62E-03	0.00E+00	1.29E-03	1.29E-03	0.00E+00	2.39E-08	2.39E-08	5.2499
Building Construction	Phase1C2	-	2266.4	0.00E+00	8.73E-04	8.73E-04	0.00E+00	4.30E-04	4.30E-04	0.00E+00	2.39E-08	2.39E-08	1.7451
Building Construction	Phase1C3	-	514	0.00E+00	1.98E-04	1.98E-04	0.00E+00	9.76E-05	9.76E-05	0.00E+00	2.39E-08	2.39E-08	0.3958
Building Construction	Phase1C4	-	2464.8	0.00E+00	9.49E-04	9.49E-04	0.00E+00	4.68E-04	4.68E-04	0.00E+00	2.39E-08	2.39E-08	1.8979
Building Construction	Phase1C5	-	2343.5	0.00E+00	9.02E-04	9.02E-04	0.00E+00	4.45E-04	4.45E-04	0.00E+00	2.39E-08	2.39E-08	1.8045
Building Construction	Phase1C6	-	1413.5	0.00E+00	5.44E-04	5.44E-04	0.00E+00	2.68E-04	2.68E-04	0.00E+00	2.39E-08	2.39E-08	1.0884
Building Construction	Phase1C7	-	766.3	0.00E+00	2.95E-04	2.95E-04	0.00E+00	1.45E-04	1.45E-04	0.00E+00	2.39E-08	2.39E-08	0.5900
Building Construction	Phase1C8	-	734.6	0.00E+00	2.83E-04	2.83E-04	0.00E+00	1.39E-04	1.39E-04	0.00E+00	2.39E-08	2.39E-08	0.5656
Building Construction	Phase1C9	-	575.2	0.00E+00	2.21E-04	2.21E-04	0.00E+00	1.09E-04	1.09E-04	0.00E+00	2.39E-08	2.39E-08	0.4429
Big Green	BIGGRN	-	23683.5	5.32E-03	3.25E-03	8.57E-03	2.62E-03	1.60E-03	4.23E-03	1.40E-08	8.53E-09	2.25E-08	6.5000
Shoreline Wetlands/IBOS	SHORE	-	21869.2	1.66E-02	1.73E-03	1.84E-02	8.19E-03	8.51E-04	9.07E-03	4.72E-08	4.90E-09	5.21E-08	3.4517
Shoreline Park	RPD2	-	29685.8	2.04E-02	6.96E-03	2.73E-02	1.01E-02	3.43E-03	1.35E-02	4.27E-08	1.46E-08	5.73E-08	13.9200
Shoreline Park Offshore	PILE	-	31729	0.00E+00	1.27E-03	1.27E-03	0.00E+00	6.26E-04	6.26E-04	0.00E+00	2.48E-09	2.48E-09	2.5374
Building Construction	Phase2C1	-	1298.9	3.72E-03	1.73E-04	3.89E-03	1.83E-03	8.51E-05	1.92E-03	1.78E-07	8.26E-09	1.86E-07	0.3453
Building Construction	Phase2C2	-	828.5	2.37E-03	1.10E-04	2.48E-03	1.17E-03	5.43E-05	1.22E-03	1.78E-07	8.26E-09	1.86E-07	0.2202
Building Construction	Phase2C3	-	3116.8	8.92E-03	4.14E-04	9.33E-03	4.40E-03	2.04E-04	4.60E-03	1.78E-07	8.26E-09	1.86E-07	0.8285
Building Construction	Phase2C4	-	1038.9	2.97E-03	1.38E-04	3.11E-03	1.47E-03	6.81E-05	1.53E-03	1.78E-07	8.26E-09	1.86E-07	0.2761
Building Construction	Phase2C5	-	1217.5	3.49E-03	1.62E-04	3.64E-03	1.72E-03	7.98E-05	1.80E-03	1.78E-07	8.26E-09	1.86E-07	0.3236
Building Construction	Phase2C6	-	1086.4	3.11E-03	1.44E-04	3.25E-03	1.53E-03	7.12E-05	1.60E-03	1.78E-07	8.26E-09	1.86E-07	0.2888
Building Construction	Phase2C7	-	2172.6	6.22E-03	2.89E-04	6.50E-03	3.07E-03	1.42E-04	3.21E-03	1.78E-07	8.26E-09	1.86E-07	0.5775
Road	Trucks	88	-	6.24E-02	1.96E-02	8.21E-02	3.08E-02	9.67E-03	4.05E-02	4.40E-05	1.39E-05	5.79E-05	39.2400
Road	Worker Vehicles	88	-	2.68E-01	8.91E-03	2.77E-01	1.32E-01	4.39E-03	1.37E-01	1.89E-04	6.29E-06	1.95E-04	967.48 Speciate
Road	SUM												2.53E-04

2021 Residential Project

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr
Building Construction	Phase1C1	-	6818.2	0.00E+00	1.90E-05	1.90E-05	0.00E+00	9.39E-06	9.39E-06	0.00E+00	1.74E-10	1.74E-10	0.0381
Building Construction	Phase1C2	-	2266.4	0.00E+00	6.33E-06	6.33E-06	0.00E+00	3.12E-06	3.12E-06	0.00E+00	1.74E-10	1.74E-10	0.0127
Building Construction	Phase1C3	-	514	0.00E+00	1.44E-06	1.44E-06	0.00E+00	7.08E-07	7.08E-07	0.00E+00	1.74E-10	1.74E-10	0.0029
Building Construction	Phase1C4	-	2464.8	0.00E+00	6.89E-06	6.89E-06	0.00E+00	3.40E-06	3.40E-06	0.00E+00	1.74E-10	1.74E-10	0.0138
Building Construction	Phase1C5	-	2343.5	0.00E+00	6.55E-06	6.55E-06	0.00E+00	3.23E-06	3.23E-06	0.00E+00	1.74E-10	1.74E-10	0.0131
Building Construction	Phase1C6	-	1413.5	0.00E+00	3.95E-06	3.95E-06	0.00E+00	1.95E-06	1.95E-06	0.00E+00	1.74E-10	1.74E-10	0.0079
Building Construction	Phase1C7	-	766.3	0.00E+00	2.14E-06	2.14E-06	0.00E+00	1.06E-06	1.06E-06	0.00E+00	1.74E-10	1.74E-10	0.0043
Building Construction	Phase1C8	-	734.6	0.00E+00	2.05E-06	2.05E-06	0.00E+00	1.01E-06	1.01E-06	0.00E+00	1.74E-10	1.74E-10	0.0041
Building Construction	Phase1C9	-	575.2	0.00E+00	1.61E-06	1.61E-06	0.00E+00	7.92E-07	7.92E-07	0.00E+00	1.74E-10	1.74E-10	0.0032
Big Green	BIGGRN	-	23683.5	0.00E+00	1.67E-03	1.67E-03	0.00E+00	8.23E-04	8.23E-04	0.00E+00	4.38E-09	4.38E-09	3.3400
Shoreline Wetlands/IBOS	SHORE	-	21869.2	0.00E+00	4.48E-03	4.48E-03	0.00E+00	2.21E-03	2.21E-03	0.00E+00	1.27E-08	1.27E-08	8.9552
Building Construction	Phase2C1	-	1298.9	3.72E-03	8.49E-04	4.57E-03	1.83E-03	4.18E-04	2.25E-03	1.78E-07	4.06E-08	2.18E-07	1.6973
Building Construction	Phase2C2	-	828.5	2.37E-03	5.41E-04	2.92E-03	1.17E-03	2.67E-04	1.44E-03	1.78E-07	4.06E-08	2.18E-07	1.0826
Building Construction	Phase2C3	-	3116.8	8.92E-03	2.04E-03	1.10E-02	4.40E-03	1.00E-03	5.41E-03	1.78E-07	4.06E-08	2.18E-07	4.0728
Building Construction	Phase2C4	-	1038.9	2.97E-03	6.79E-04	3.66E-03	1.47E-03	3.35E-04	1.80E-03	1.78E-07	4.06E-08	2.18E-07	1.3576
Building Construction	Phase2C5	-	1217.5	3.49E-03	7.95E-04	4.29E-03	1.72E-03	3.92E-04	2.11E-03	1.78E-07	4.06E-08	2.18E-07	1.5910
Building Construction	Phase2C6	-	1086.4	3.11E-03	7.10E-04	3.82E-03	1.53E-03	3.50E-04	1.89E-03	1.78E-07	4.06E-08	2.18E-07	1.4196
Building Construction	Phase2C7	-	2172.6	6.22E-03	1.42E-03	7.65E-03	3.07E-03	7.00E-04	3.77E-03	1.78E-07	4.06E-08	2.18E-07	2.8390
Beach Pier	BEACH	-	5190.4	1.72E-02	9.20E-04	1.81E-02	8.48E-03	4.54E-04	8.94E-03	2.06E-07	1.10E-08	2.17E-07	1.8400
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN1	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN2	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
300 hp Emergency Engine at Big Green	EMGEN3	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN5	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN6	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
300 hp Emergency Engine at Big Green	EMGEN7	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
Road	Trucks	88	-	1.70E-02	0.003	0.020	8.38E-03	1.28E-03	9.66E-03	1.20E-05	1.84E-06	1.38E-05	5.2000
Road	Worker Vehicles	88	-	1.25E-01	0.004	0.129	6.15E-02	2.01E-03	6.34E-02	8.80E-05	2.87E-06	9.09E-05	420.68 Speciate
Road	SUM				0.007	0.148						1.05E-04	

2022 Residential Project

												AERMOD	HARP
Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr
Building Construction	Phase2C1	-	1298.9	0.00E+00	5.92E-04	5.92E-04	0.00E+00	2.92E-04	2.92E-04	0.00E+00	2.83E-08	2.83E-08	1.1831
Building Construction	Phase2C2	-	828.5	0.00E+00	3.77E-04	3.77E-04	0.00E+00	1.86E-04	1.86E-04	0.00E+00	2.83E-08	2.83E-08	0.7546
Building Construction	Phase2C3	-	3116.8	0.00E+00	1.42E-03	1.42E-03	0.00E+00	7.00E-04	7.00E-04	0.00E+00	2.83E-08	2.83E-08	2.8388
Building Construction	Phase2C4	-	1038.9	0.00E+00	4.73E-04	4.73E-04	0.00E+00	2.33E-04	2.33E-04	0.00E+00	2.83E-08	2.83E-08	0.9462
Building Construction	Phase2C5	-	1217.5	0.00E+00	5.54E-04	5.54E-04	0.00E+00	2.73E-04	2.73E-04	0.00E+00	2.83E-08	2.83E-08	1.1089
Building Construction	Phase2C6	-	1086.4	0.00E+00	4.95E-04	4.95E-04	0.00E+00	2.44E-04	2.44E-04	0.00E+00	2.83E-08	2.83E-08	0.9895
Building Construction	Phase2C7	-	2172.6	0.00E+00	9.89E-04	9.89E-04	0.00E+00	4.88E-04	4.88E-04	0.00E+00	2.83E-08	2.83E-08	1.9788
Beach Pier	BEACH	-	5190.4	0.00E+00	4.34E-03	4.34E-03	0.00E+00	2.14E-03	2.14E-03	0.00E+00	5.19E-08	5.19E-08	8.6800
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN1	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN2	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
300 hp Emergency Engine at Big Green	EMGEN3	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN5	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN6	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
300 hp Emergency Engine at Big Green	EMGEN7	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
Road	Trucks	88	-	1.01E-02	1.37E-03	1.15E-02	4.98E-03	6.76E-04	5.67E-03	7.13E-06	9.67E-07	8.10E-06	2.7400
Road	Worker Vehicles	88	-	7.90E-02	2.50E-03	8.01E-02	3.89E-02	1.23E-03	3.95E-02	5.58E-05	1.77E-06	5.75E-05	247.54 Speciate
Road	SUM											6.56E-05	

Operations - Residential Project

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	AERMOD PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	HARP PM2.5 or TOG lb/yr
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN1	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN2	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
300 hp Emergency Engine at Big Green	EMGEN3	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
300 hp Emergency Engine at Flats & Earl	EMGEN4	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN5	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
500 hp Emergency Engine at Hamman Hillside Cove	EMGEN6	-	-	-	0.000	0.000	-	6.89E-05	6.89E-05	-	8.68E-06	8.68E-06	0.6035
300 hp Emergency Engine at Big Green	EMGEN7	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
300 hp Emergency Engine at Flats & Earl	EMGEN8	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621

Location	Code	#	Type										Total	
Innes Avenue (North of Donahue Street)	INNESN	74	Cars	8.60E-02	4.21E-03	9.03E-02	1.96E-02	9.61E-04	2.06E-02	3.35E-05	1.64E-06	3.51E-05	294.04	Speciate
Hunter's Point Boulevard	HUNT	32	Cars	5.06E-02	2.47E-03	5.30E-02	1.15E-02	5.64E-04	1.21E-02	4.55E-05	2.22E-06	4.77E-05	172.77	Speciate
Evans Avenue	EVANS	14	Cars	2.21E-02	1.08E-03	2.32E-02	5.05E-03	2.47E-04	5.30E-03	4.55E-05	2.22E-06	4.77E-05	75.59	Speciate
New Griffith Street	GRIFF	3	Cars	1.79E-02	8.77E-04	1.88E-02	4.09E-03	2.00E-04	4.29E-03	1.72E-04	8.41E-06	1.80E-04	61.26	Speciate
New Hudson Street (Avenue?)	NHUD	43	Cars	3.23E-02	1.58E-03	3.39E-02	7.38E-03	3.61E-04	7.74E-03	2.16E-05	1.06E-06	2.27E-05	110.44	Speciate
Arelious Walker Drive	ARELI	6	Cars	3.72E-02	1.82E-03	3.90E-02	8.49E-03	4.15E-04	8.91E-03	1.78E-04	8.72E-06	1.87E-04	127.07	Speciate
Earl Street (North of Innes Avenue)	EARLN	39	Cars	3.23E-02	1.58E-03	3.39E-02	7.38E-03	3.61E-04	7.74E-03	2.38E-05	1.17E-06	2.50E-05	110.44	Speciate
Donahue Street (South of Galvez Avenue)	DONS	27	Cars	6.47E-04	3.16E-05	6.79E-04	1.48E-04	7.22E-06	1.55E-04	6.89E-07	3.37E-08	7.23E-07	2.21	Speciate
Galvez Avenue	GALVEZ	6	Cars	1.44E-04	7.03E-06	1.51E-04	3.28E-05	1.61E-06	3.44E-05	6.89E-07	3.37E-08	7.23E-07	0.49	Speciate
Innes Avenue (South of Donahue Street)	INNESS	14	Cars	3.36E-04	1.64E-05	3.52E-04	7.66E-05	3.75E-06	8.03E-05	6.89E-07	3.37E-08	7.23E-07	1.15	Speciate
Hudson Avenue	HUDSON	17	Cars	4.07E-04	1.99E-05	4.27E-04	9.30E-05	4.55E-06	9.76E-05	6.89E-07	3.37E-08	7.23E-07	1.39	Speciate
Kirkwood Avenue/La Salle (South of Donahue Street)	KIRKS	13	Cars	3.12E-04	1.52E-05	3.27E-04	7.11E-05	3.48E-06	7.46E-05	6.89E-07	3.37E-08	7.23E-07	1.06	Speciate
Friedell Street	FRIED	25	Cars	5.99E-04	2.93E-05	6.28E-04	1.37E-04	6.69E-06	1.43E-04	6.89E-07	3.37E-08	7.23E-07	2.05	Speciate
Jerrold Avenue	JERR	20	Cars	4.79E-04	2.34E-05	5.03E-04	1.09E-04	5.35E-06	1.15E-04	6.89E-07	3.37E-08	7.23E-07	1.64	Speciate
Northridge Road	NORTH	68	Cars	1.63E-03	7.97E-05	1.71E-03	3.72E-04	1.82E-05	3.90E-04	6.89E-07	3.37E-08	7.23E-07	5.57	Speciate
Earl Street (South of Innes Avenue)	EARLS	8	Cars	1.92E-04	9.37E-06	2.01E-04	4.38E-05	2.14E-06	4.59E-05	6.89E-07	3.37E-08	7.23E-07	0.66	Speciate
Kirkwood Avenue/La Salle (North of Donahue Street)	KIRKN	67	Cars	1.61E-03	7.85E-05	1.68E-03	3.67E-04	1.79E-05	3.85E-04	6.89E-07	3.37E-08	7.23E-07	5.49	Speciate
Ingalls Street	INGALLS	33	Cars	7.91E-04	3.87E-05	8.30E-04	1.81E-04	8.83E-06	1.89E-04	6.89E-07	3.37E-08	7.23E-07	2.70	Speciate
Jennings Street	JENN	8	Cars	6.15E-04	3.01E-05	6.45E-04	1.40E-04	6.86E-06	1.47E-04	2.21E-06	1.08E-07	2.32E-06	2.10	Speciate
Middle Point Road	MIDDLE	29	Cars	6.95E-04	3.40E-05	7.29E-04	1.59E-04	7.76E-06	1.66E-04	6.89E-07	3.37E-08	7.23E-07	2.37	Speciate
Hawes Street	HAWES	4	Cars	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00	Speciate

Street	Code	No.	Type											
Innes Avenue (North of Donahue Street)	INNESN	74	Trucks	6.08E-03	2.97E-04	6.37E-03	-	6.78E-05	6.78E-05	-	1.15E-07	1.15E-07	0.5942
Hunter's Point Boulevard	HUNT	32	Trucks	3.57E-03	1.75E-04	3.74E-03	-	3.99E-05	3.99E-05	-	1.57E-07	1.57E-07	0.3492
Evans Avenue	EVANS	14	Trucks	1.56E-03	7.64E-05	1.64E-03	-	1.74E-05	1.74E-05	-	1.57E-07	1.57E-07	0.1528
New Griffith Street	GRIFF	3	Trucks	1.27E-03	6.19E-05	1.33E-03	-	1.41E-05	1.41E-05	-	5.94E-07	5.94E-07	0.1238
New Hudson Street (Avenue?)	NHUD	43	Trucks	2.28E-03	1.12E-04	2.39E-03	-	2.55E-05	2.55E-05	-	7.47E-08	7.47E-08	0.2232
Arelious Walker Drive	ARELI	6	Trucks	2.63E-03	1.28E-04	2.75E-03	-	2.93E-05	2.93E-05	-	6.16E-07	6.16E-07	0.2568
Earl Street (North of Innes Avenue)	EARLN	39	Trucks	2.28E-03	1.12E-04	2.39E-03	-	2.55E-05	2.55E-05	-	8.23E-08	8.23E-08	0.2232
Donahue Street (South of Galvez Avenue)	DONS	27	Trucks	4.57E-05	2.23E-06	4.79E-05	-	5.10E-07	5.10E-07	-	2.38E-09	2.38E-09	0.0045
Galvez Avenue	GALVEZ	6	Trucks	1.02E-05	4.96E-07	1.07E-05	-	1.13E-07	1.13E-07	-	2.38E-09	2.38E-09	0.0010
Innes Avenue (South of Donahue Street)	INNESS	14	Trucks	2.37E-05	1.16E-06	2.49E-05	-	2.64E-07	2.64E-07	-	2.38E-09	2.38E-09	0.0023
Hudson Avenue	HUDSON	17	Trucks	2.88E-05	1.41E-06	3.02E-05	-	3.21E-07	3.21E-07	-	2.38E-09	2.38E-09	0.0028
Kirkwood Avenue/La Salle (South of Donahue Street)	KIRKS	13	Trucks	2.20E-05	1.08E-06	2.31E-05	-	2.46E-07	2.46E-07	-	2.38E-09	2.38E-09	0.0022
Friedell Street	FRIED	25	Trucks	4.23E-05	2.07E-06	4.44E-05	-	4.72E-07	4.72E-07	-	2.38E-09	2.38E-09	0.0041
Jerrold Avenue	JERR	20	Trucks	3.38E-05	1.65E-06	3.55E-05	-	3.78E-07	3.78E-07	-	2.38E-09	2.38E-09	0.0033
Northridge Road	NORTH	68	Trucks	1.15E-04	5.63E-06	1.21E-04	-	1.28E-06	1.28E-06	-	2.38E-09	2.38E-09	0.0113
Earl Street (South of Innes Avenue)	EARLS	8	Trucks	1.35E-05	6.62E-07	1.42E-05	-	1.51E-07	1.51E-07	-	2.38E-09	2.38E-09	0.0013
Kirkwood Avenue/La Salle (North of Donahue Street)	KIRKN	67	Trucks	1.13E-04	5.54E-06	1.19E-04	-	1.27E-06	1.27E-06	-	2.38E-09	2.38E-09	0.0111
Ingalls Street	INGALLS	33	Trucks	5.58E-05	2.73E-06	5.86E-05	-	6.23E-07	6.23E-07	-	2.38E-09	2.38E-09	0.0055
Jennings Street	JENN	8	Trucks	4.34E-05	2.12E-06	4.55E-05	-	4.85E-07	4.85E-07	-	7.63E-09	7.63E-09	0.0042
Middle Point Road	MIDDLE	29	Trucks	4.91E-05	2.40E-06	5.15E-05	-	5.48E-07	5.48E-07	-	2.38E-09	2.38E-09	0.0048
Hawes Street	HAWES	4	Trucks	0.00E+00	0.00E+00	0.00E+00	-	0.00E+00	0.00E+00	-	0.00E+00	0.00E+00	0.0000

Innes Avenue (North of Donahue Street)	INNESN	74	Total			9.66E-02			2.07E-02			3.52E-05	N/A
Hunter's Point Boulevard	HUNT	32	Total			5.68E-02			1.21E-02			4.78E-05	N/A
Evans Avenue	EVANS	14	Total			2.48E-02			5.31E-03			4.78E-05	N/A
New Griffith Street	GRIFF	3	Total			2.01E-02			4.31E-03			1.81E-04	N/A
New Hudson Street (Avenue?)	NHUD	43	Total			3.63E-02			7.77E-03			2.28E-05	N/A
Arelious Walker Drive	ARELI	6	Total			4.18E-02			8.93E-03			1.88E-04	N/A
Earl Street (North of Innes Avenue)	EARLN	39	Total			3.63E-02			7.77E-03			2.51E-05	N/A
Donahue Street (South of Galvez Avenue)	DONS	27	Total			7.27E-04			1.55E-04			7.25E-07	N/A
Galvez Avenue	GALVEZ	6	Total			1.61E-04			3.45E-05			7.25E-07	N/A
Innes Avenue (South of Donahue Street)	INNESS	14	Total			3.77E-04			8.06E-05			7.25E-07	N/A
Hudson Avenue	HUDSON	17	Total			4.57E-04			9.79E-05			7.25E-07	N/A
Kirkwood Avenue/La Salle (South of Donahue Street)	KIRKS	13	Total			3.50E-04			7.49E-05			7.25E-07	N/A
Friedell Street	FRIED	25	Total			6.73E-04			1.44E-04			7.25E-07	N/A
Jerrold Avenue	JERR	20	Total			5.38E-04			1.15E-04			7.25E-07	N/A
Northridge Road	NORTH	68	Total			1.83E-03			3.92E-04			7.25E-07	N/A
Earl Street (South of Innes Avenue)	EARLS	8	Total			2.15E-04			4.61E-05			7.25E-07	N/A
Kirkwood Avenue/La Salle (North of Donahue Street)	KIRKN	67	Total			1.80E-03			3.86E-04			7.25E-07	N/A
Ingalls Street	INGALLS	33	Total			8.88E-04			1.90E-04			7.25E-07	N/A
Jennings Street	JENN	8	Total			6.90E-04			1.48E-04			2.33E-06	N/A
Middle Point Road	MIDDLE	29	Total			7.80E-04			1.67E-04			7.25E-07	N/A
Hawes Street	HAWES	4	Total			0.00E+00			0.00E+00			0.00E+00	N/A

0.307   0.015   0.322

Proposed Project

Construction Phase	Area Source	Area (m2)	g/s/m2 (1 g/s)
Phase 1	Grade	118641.4	8.4288E-06
	Phase1C1	6818.2	1.4667E-04
	Phase1C2	2266.4	4.4123E-04
	Phase1C3	514	1.9455E-03
	Phase1C4	2464.8	4.0571E-04
	Phase1C5	2343.5	4.2671E-04
	Phase1C6	1413.5	7.0746E-04
	Phase1C7	766.3	1.3050E-03
	Phase1C8	734.6	1.3613E-03
	Phase1C9	575.2	1.7385E-03
	BIGGRN	23683.5	4.2223E-05
	SHORE	21869.2	4.5726E-05
Phase 2	BEACH	5190.4	1.92663E-04
	Phase2C1	1298.9	7.69882E-04
	Phase2C2	828.5	1.20700E-03
	Phase2C3	3116.8	3.20842E-04
	Phase2C4	1038.9	9.62557E-04
	Phase2C5	1217.5	8.21355E-04
	Phase2C6	1086.4	9.20471E-04
	Phase2C7	2172.6	4.60278E-04

	Area Source	Area (m2)	g/s/m2 (1 g/s)
	RPD1	9243	1.08190E-04
	RPD2	29685.8	3.36861E-05

	Area Source	Area (m2)	g/s/m2 (1 g/s)
Offshore	PILE	31729	3.15169E-05

Maximum Commercial Variant

Construction Phase	Area Source	Area (m2)	g/s/m2 (1 g/s)
Phase 1	Grade	118641.4	8.42876E-06
	Phase1C1	6612.0	1.51240E-04
	Phase1C2	1468.6	6.80921E-04
	Phase1C3	514.0	1.94553E-03
	Phase1C4	4507.7	2.21843E-04
	Phase1C5	5671.8	1.76311E-04
	Phase1C6	766.3	1.30497E-03
	Phase1C7	734.6	1.36129E-03
	Phase1C8	575.2	1.73853E-03
	BIGGRN	23683.5	4.22235E-05
	SHORE	21869.2	4.57264E-05
Phase 2	BEACH	5190.4	1.92663E-04
	Phase2C1	1298.9	7.69882E-04
	Phase2C2	828.5	1.20700E-03
	Phase2C3	3116.8	3.20842E-04
	Phase2C4	1038.9	9.62557E-04
	Phase2C5	1217.5	8.21355E-04
	Phase2C6	1086.4	9.20471E-04
	Phase2C7	2172.6	4.60278E-04

	Area Source	Area (m2)	g/s/m2 (1 g/s)
	RPD1	9243	1.08190E-04
	RPD2	29685.8	3.36861E-05

	Area Source	Area (m2)	g/s/m2 (1 g/s)
Offshore	PILE	31729	3.15169E-05

Road Modeling Information for Operations

Road	Road Width (ft)	Road Width (m)	Source	Base Elevation	Model ID	Line Volume Src Type	Plume Height (m)	Plume Width (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)	# Volume Sources	Total Length (m)	g/s per vol (1 g/s)
Innes Avenue (North of Donahue Street)	44.00	13.41	Table 3-4,India_Basin_TIS2_9.23.	varies - AERMAP	INNESN	Adjacent	4.00	13.41	2.00	varies - based on plume width	2.30	74	997.8	0.01351351
Hunter's Point Boulevard	44.00	13.41	Table 3-4,India_Basin_TIS2_9.23.	varies - AERMAP	HUNT	Adjacent	4.00	13.41	2.00	varies - based on plume width	2.30	32	428.8	0.03125
Evans Avenue	44.00	13.41	Table 3-4,India_Basin_TIS2_9.23.	varies - AERMAP	EVANS	Adjacent	4.00	13.41	2.00	varies - based on plume width	2.30	14	185.4	0.07142857
New Griffith Street	26.00	7.92	Table 1-2,India_Basin_TIS2_9.23.	varies - AERMAP	GRIFF	Adjacent	4.00	7.92	2.00	varies - based on plume width	2.30	3	23.6	0.33333333
New Hudson Street (Avenue?)	35.00	10.67	Table 1-2,India_Basin_TIS2_9.23.	varies - AERMAP	NHUD	Adjacent	4.00	10.67	2.00	varies - based on plume width	2.30	43	463.8	0.02325581
Arelious Walker Drive	40.00	12.19	Table 1-2,India_Basin_TIS2_9.23.	varies - AERMAP	ARELI	Adjacent	4.00	12.19	2.00	varies - based on plume width	2.30	6	71.2	0.16666667
Earl Street (North of Innes Avenue)	28.00	8.53	Table 1-2,India_Basin_TIS2_9.23.	varies - AERMAP	EARLN	Adjacent	4.00	8.53	2.00	varies - based on plume width	2.30	39	337.1	0.02564103
Donahue Street (South of Galvez Avenue)	40.00	12.19	Google Earth Measurement	varies - AERMAP	DONS	Adjacent	4.00	12.19	2.00	varies - based on plume width	2.30	27	326.6	0.03703704
Galvez Avenue	80.00	24.38	Google Earth Measurement	varies - AERMAP	GALVEZ	Adjacent	4.00	24.38	2.00	varies - based on plume width	2.30	6	155.8	0.16666667
Innes Avenue (South of Donahue Street)	40.00	12.19	Average Google Earth Measurement	varies - AERMAP	INNESS	Adjacent	4.00	12.19	2.00	varies - based on plume width	2.30	14	167.2	0.07142857
Hudson Avenue	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	HUDSON	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	17	168.3	0.05882353
Kirkwood Avenue/La Salle (South of Donahue Street)	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	KIRKS	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	13	129.7	0.07692308
Friedell Street	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	FRIED	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	25	248.1	0.04
Jerrold Avenue	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	JERR	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	20	199.9	0.05
Northridge Road	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	NORTH	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	68	664.5	0.01470588
Earl Street (South of Innes Avenue)	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	EARLS	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	8	82	0.125
Kirkwood Avenue (North of Donahue Street)	32.00	9.75	Average Google Earth Measurement	varies - AERMAP	KIRKN	Adjacent	4.00	9.75	2.00	varies - based on plume width	2.30	67	649.3	0.01492537
Ingalls Street	36.00	10.97	Average Google Earth Measurement	varies - AERMAP	INGALLS	Adjacent	4.00	10.97	2.00	varies - based on plume width	2.30	33	358.7	0.03030303
Jennings Street	42.00	12.80	Average Google Earth Measurement	varies - AERMAP	JENN	Adjacent	4.00	12.80	2.00	varies - based on plume width	2.30	8	96	0.125
Middle Point Road	34.00	10.36	Average Google Earth Measurement	varies - AERMAP	MIDDLE	Adjacent	4.00	10.36	2.00	varies - based on plume width	2.30	29	300.4	0.03448276
Hawes Street	60.00	18.29	Average Google Earth Measurement	varies - AERMAP	HAWES	Adjacent	4.00	18.29	2.00	varies - based on plume width	2.30	4	74.8	0.25

Road Modeling Information for Construction

Road	Road Width (ft)	Source
Innes Ave.	44.00	Table 3-4,India_Basin_TIS2_9.23.16. Circulaiton Subvariant
Hunter's Point Blvd	44.00	Table 3-4,India_Basin_TIS2_9.23.16. Circulaiton Subvariant
Evans Avenue	44.00	Table 3-4,India_Basin_TIS2_9.23.16. Circulaiton Subvariant

Adjacent Line Source Parameters - All Roads		Source
Model ID	CONST	---
Plume Height (m)	4.00	CRRP-HRA - release height = 2m
Plume Width (m)	13.41	Road Widths
Release Height (m)	2.00	CRRP-HRA
Initial Lateral Dimension (m)	varies	Based on Road Width
Initial Vertical Dimension (m)	2.30	CRRP-HRA
Base Elevation (m)	varies	AERMAP
# Volume Sources	88	LAKES
Total Length (m)	1182.5	LAKES

g/s per VOL (1 g/s)   0.011363636

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**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE 2018-2020 Existing Receptors - Residential Option
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   FLAGPOLE 1.80
   RUNORNOT RUN
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION GRADE      AREAPOLY   555042.085  4176328.678      6.096
   LOCATION PHASE1C1   AREAPOLY   555026.479  4176281.861      6.096
   LOCATION PHASE1C2   AREAPOLY   555222.916  4176198.157      7.620
   LOCATION PHASE1C3   AREAPOLY   555289.282  4176118.664     12.192
   LOCATION PHASE1C4   AREAPOLY   555231.976  4176205.533      5.182
   LOCATION PHASE1C5   AREAPOLY   555317.935  4176185.976      6.096
   LOCATION PHASE1C6   AREAPOLY   555317.253  4176112.524      6.096
   LOCATION PHASE1C7   AREAPOLY   555172.354  4176309.620      4.572
   LOCATION PHASE1C8   AREAPOLY   555097.859  4176300.036      4.572
   LOCATION PHASE1C9   AREAPOLY   555465.541  4176252.551      4.572
   LOCATION BIGGRN     AREAPOLY   555029.810  4176309.841      4.572
   LOCATION SHORE      AREAPOLY   555121.109  4176331.718      4.572
   LOCATION RPD1       AREAPOLY   554905.075  4176422.558     12.380
   LOCATION RPD2       AREAPOLY   554918.029  4176546.199     15.180
   LOCATION PILE       AREAPOLY   555036.003  4176394.153      0.000
   LOCATION PHASE2C1   AREAPOLY   555388.531  4176143.749      5.791
   LOCATION PHASE2C2   AREAPOLY   555433.844  4176203.876      5.182
   LOCATION PHASE2C3   AREAPOLY   555354.546  4176254.417      5.182
   LOCATION PHASE2C4   AREAPOLY   555316.578  4176272.940      5.182
   LOCATION PHASE2C5   AREAPOLY   555322.465  4176279.362      4.572
   LOCATION PHASE2C6   AREAPOLY   555398.992  4176311.471      4.572
   LOCATION PHASE2C7   AREAPOLY   555359.658  4176270.532      5.182
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = CONST
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 8
```

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** 555339.829, 4176031.731, 18.90, 2.00, 6.24
** 554903.494, 4176341.253, 12.12, 2.00, 6.24
** 554890.980, 4176370.453, 12.52, 2.00, 6.24
** 554890.980, 4176412.167, 12.52, 2.00, 6.24
** 554897.654, 4176446.373, 12.75, 2.00, 6.24
** 554913.506, 4176649.941, 14.38, 2.00, 6.24
** 554849.265, 4176789.267, 10.80, 2.00, 6.24
** 554702.430, 4176896.057, 9.06, 2.00, 6.24
** -------------------------------------------------------------------
   LOCATION L0001430    VOLUME    555334.360 4176035.610 18.82
   LOCATION L0001431    VOLUME    555323.423 4176043.369 18.65
   LOCATION L0001432    VOLUME    555312.485 4176051.128 18.48
   LOCATION L0001433    VOLUME    555301.548 4176058.887 18.31
   LOCATION L0001434    VOLUME    555290.610 4176066.645 18.14
   LOCATION L0001435    VOLUME    555279.672 4176074.404 17.97
   LOCATION L0001436    VOLUME    555268.735 4176082.163 17.80
   LOCATION L0001437    VOLUME    555257.797 4176089.922 17.63
   LOCATION L0001438    VOLUME    555246.860 4176097.680 17.46
   LOCATION L0001439    VOLUME    555235.922 4176105.439 17.29
   LOCATION L0001440    VOLUME    555224.985 4176113.198 17.12
   LOCATION L0001441    VOLUME    555214.047 4176120.957 16.95
   LOCATION L0001442    VOLUME    555203.110 4176128.715 16.78
   LOCATION L0001443    VOLUME    555192.172 4176136.474 16.61
   LOCATION L0001444    VOLUME    555181.235 4176144.233 16.44
   LOCATION L0001445    VOLUME    555170.297 4176151.992 16.27
   LOCATION L0001446    VOLUME    555159.359 4176159.750 16.10
   LOCATION L0001447    VOLUME    555148.422 4176167.509 15.93
   LOCATION L0001448    VOLUME    555137.484 4176175.268 15.76
   LOCATION L0001449    VOLUME    555126.547 4176183.027 15.59
   LOCATION L0001450    VOLUME    555115.609 4176190.785 15.42
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   LOCATION L0001452    VOLUME    555093.734 4176206.303 15.08
   LOCATION L0001453    VOLUME    555082.797 4176214.062 14.91
   LOCATION L0001454    VOLUME    555071.859 4176221.820 14.74
   LOCATION L0001455    VOLUME    555060.922 4176229.579 14.57
   LOCATION L0001456    VOLUME    555049.984 4176237.338 14.40
   LOCATION L0001457    VOLUME    555039.046 4176245.096 14.23
   LOCATION L0001458    VOLUME    555028.109 4176252.855 14.06
   LOCATION L0001459    VOLUME    555017.171 4176260.614 13.89
   LOCATION L0001460    VOLUME    555006.234 4176268.373 13.72
   LOCATION L0001461    VOLUME    554995.296 4176276.131 13.55
   LOCATION L0001462    VOLUME    554984.359 4176283.890 13.38
   LOCATION L0001463    VOLUME    554973.421 4176291.649 13.21
   LOCATION L0001464    VOLUME    554962.484 4176299.408 13.04
   LOCATION L0001465    VOLUME    554951.546 4176307.166 12.87
   LOCATION L0001466    VOLUME    554940.608 4176314.925 12.70
   LOCATION L0001467    VOLUME    554929.671 4176322.684 12.53
   LOCATION L0001468    VOLUME    554918.733 4176330.443 12.36
   LOCATION L0001469    VOLUME    554907.796 4176338.201 12.19
   LOCATION L0001470    VOLUME    554900.289 4176348.731 12.22
   LOCATION L0001471    VOLUME    554895.007 4176361.057 12.39
   LOCATION L0001472    VOLUME    554890.980 4176373.640 12.52
   LOCATION L0001473    VOLUME    554890.980 4176387.050 12.52
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   LOCATION L0001475    VOLUME    554891.306 4176413.839 12.53
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   LOCATION L0001480     VOLUME    554900.286 4176480.173 13.02
   LOCATION L0001481     VOLUME    554901.327 4176493.542 13.13
   LOCATION L0001482     VOLUME    554902.368 4176506.912 13.23
   LOCATION L0001483     VOLUME    554903.409 4176520.281 13.34
   LOCATION L0001484     VOLUME    554904.450 4176533.651 13.45
   LOCATION L0001485     VOLUME    554905.492 4176547.021 13.56
   LOCATION L0001486     VOLUME    554906.533 4176560.390 13.66
   LOCATION L0001487     VOLUME    554907.574 4176573.760 13.77
   LOCATION L0001488     VOLUME    554908.615 4176587.129 13.88
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   LOCATION L0001490     VOLUME    554910.697 4176613.868 14.09
   LOCATION L0001491     VOLUME    554911.738 4176627.238 14.20
   LOCATION L0001492     VOLUME    554912.779 4176640.607 14.31
   LOCATION L0001493     VOLUME    554911.811 4176653.617 14.29
   LOCATION L0001494     VOLUME    554906.196 4176665.795 13.97
   LOCATION L0001495     VOLUME    554900.581 4176677.973 13.66
   LOCATION L0001496     VOLUME    554894.966 4176690.151 13.35
   LOCATION L0001497     VOLUME    554889.351 4176702.328 13.03
   LOCATION L0001498     VOLUME    554883.736 4176714.506 12.72
   LOCATION L0001499     VOLUME    554878.121 4176726.684 12.41
   LOCATION L0001500     VOLUME    554872.506 4176738.862 12.10
   LOCATION L0001501     VOLUME    554866.891 4176751.040 11.78
   LOCATION L0001502     VOLUME    554861.276 4176763.218 11.47
   LOCATION L0001503     VOLUME    554855.661 4176775.395 11.16
   LOCATION L0001504     VOLUME    554850.046 4176787.573 10.84
   LOCATION L0001505     VOLUME    554839.928 4176796.057 10.69
   LOCATION L0001506     VOLUME    554829.083 4176803.945 10.56
   LOCATION L0001507     VOLUME    554818.238 4176811.832 10.43
   LOCATION L0001508     VOLUME    554807.393 4176819.720 10.30
   LOCATION L0001509     VOLUME    554796.548 4176827.607 10.18
   LOCATION L0001510     VOLUME    554785.703 4176835.495 10.05
   LOCATION L0001511     VOLUME    554774.858 4176843.382 9.92
   LOCATION L0001512     VOLUME    554764.012 4176851.269 9.79
   LOCATION L0001513     VOLUME    554753.167 4176859.157 9.66
   LOCATION L0001514     VOLUME    554742.322 4176867.044 9.53
   LOCATION L0001515     VOLUME    554731.477 4176874.932 9.40
   LOCATION L0001516     VOLUME    554720.632 4176882.819 9.28
   LOCATION L0001517     VOLUME    554709.787 4176890.707 9.15
** End of LINE VOLUME Source ID = CONST

** Source Parameters **
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   AREAVERT GRADE         555074.006 4176269.093 555054.144 4176242.846
   AREAVERT GRADE         555092.449 4176216.600 555110.893 4176242.846
   AREAVERT GRADE         555130.045 4176229.369 555112.311 4176203.832
   AREAVERT GRADE         555138.557 4176185.389 555154.163 4176212.344
   AREAVERT GRADE         555185.375 4176190.354 555168.350 4176166.946
   AREAVERT GRADE         555259.147 4176102.394 555276.172 4176129.350
   AREAVERT GRADE         555288.940 4176120.128 555272.625 4176092.464
   AREAVERT GRADE         555285.394 4176084.661 555302.418 4176110.197
   AREAVERT GRADE         555352.073 4176074.020 555335.048 4176049.193
   AREAVERT GRADE         555351.363 4176039.262 555547.145 4176317.329
   AREAVERT GRADE         555526.574 4176332.934 555515.224 4176332.934
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AREAVERT GRADE          555481.884 4176360.599 555469.116 4176370.530
AREAVERT GRADE          555456.348 4176386.136 555452.092 4176390.392
AREAVERT GRADE          555440.033 4176392.520 555403.856 4176428.697
AREAVERT GRADE          555396.053 4176437.209 555387.540 4176441.466
AREAVERT GRADE          555364.132 4176479.771 555349.945 4176491.830
AREAVERT GRADE          555337.176 4176506.726 555318.024 4176514.529
AREAVERT GRADE          555296.743 4176506.726 555271.916 4176484.027
AREAVERT GRADE          555264.822 4176473.386 555261.985 4176464.874
AREAVERT GRADE          555249.216 4176442.175 555226.517 4176423.732
AREAVERT GRADE          555208.783 4176400.323 555191.049 4176374.786
AREAVERT GRADE          555181.828 4176367.693 555168.350 4176354.924
AREAVERT GRADE          555158.419 4176347.121 555144.941 4176340.737
AREAVERT GRADE          555127.917 4176337.191 555120.114 4176329.388
AREAVERT GRADE          555114.439 4176329.388 555098.834 4176337.191
AREAVERT GRADE          555086.065 4176328.678 555078.262 4176335.062
AREAVERT GRADE          555081.100 4176342.865 555074.006 4176347.831
AREAVERT GRADE          555052.726 4176320.166
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AREAVERT PHASE1C1       555026.479 4176281.861 555018.677 4176270.511
AREAVERT PHASE1C1       555037.829 4176257.034 555054.854 4176282.570
AREAVERT PHASE1C1       555074.861 4176269.520 555058.346 4176243.383
AREAVERT PHASE1C1       555093.159 4176218.728 555110.129 4176243.865
AREAVERT PHASE1C1       555129.845 4176230.024 555139.976 4176222.985
AREAVERT PHASE1C1       555123.661 4176198.157 555135.011 4176189.645
AREAVERT PHASE1C1       555152.744 4176214.472 555186.084 4176189.645
AREAVERT PHASE1C1       555198.852 4176208.798 555180.409 4176228.659
AREAVERT PHASE1C1       555186.111 4176237.453 555180.127 4176244.292
AREAVERT PHASE1C1       555184.893 4176249.767 555160.948 4176259.925
AREAVERT PHASE1C1       555152.717 4176248.321 555147.779 4176249.512
AREAVERT PHASE1C1       555153.454 4176262.708 555133.792 4176267.728
AREAVERT PHASE1C1       555132.628 4176266.764 555094.523 4176277.886
AREAVERT PHASE1C1       555094.751 4176280.015 555057.518 4176286.854
AREAVERT PHASE1C1       555045.150 4176285.034
SRCPARAM PHASE1C2       0.00044123    2.000       20     1.400
AREAVERT PHASE1C2       555222.916 4176198.157 555191.049 4176151.340
AREAVERT PHASE1C2       555208.329 4176145.465 555205.237 4176141.409
AREAVERT PHASE1C2       555213.328 4176137.084 555215.375 4176139.813
AREAVERT PHASE1C2       555216.967 4176138.903 555215.830 4176136.856
AREAVERT PHASE1C2       555232.885 4176125.031 555234.250 4176126.623
AREAVERT PHASE1C2       555235.159 4176125.941 555233.567 4176123.439
AREAVERT PHASE1C2       555248.576 4176112.069 555267.451 4176139.585
AREAVERT PHASE1C2       555252.442 4176149.591 555244.710 4176138.448
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AREAVERT PHASE1C2       555224.699 4176168.921 555235.387 4176184.612
SRCPARAM PHASE1C3        0.00195    2.000        4     1.400
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AREAVERT PHASE1C3       555284.734 4176083.871 555302.926 4176109.795
SRCPARAM PHASE1C4       0.0004057    2.000       12     1.400
AREAVERT PHASE1C4       555231.976 4176205.533 555251.760 4176172.104
AREAVERT PHASE1C4       555261.766 4176177.562 555250.850 4176196.664
AREAVERT PHASE1C4       555275.183 4176211.446 555284.279 4176202.804
AREAVERT PHASE1C4       555256.763 4176155.731 555272.454 4176145.953
AREAVERT PHASE1C4       555304.973 4176200.303 555289.964 4176212.583
AREAVERT PHASE1C4       555284.506 4176218.723 555272.454 4176231.002
SRCPARAM PHASE1C5       0.0004267    2.000        8     1.400
AREAVERT PHASE1C5       555317.935 4176185.976 555283.597 4176137.084
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   AREAVERT PHASE1C5      555338.856 4176137.311 555324.757 4176120.028
   AREAVERT PHASE1C5      555339.084 4176109.795 555363.416 4176141.177
   SRCPARAM PHASE1C6      0.00070746     2.000        6     1.400
   AREAVERT PHASE1C6      555317.253 4176112.524 555310.431 4176103.428
   AREAVERT PHASE1C6      555351.136 4176075.229 555388.658 4176114.571
   AREAVERT PHASE1C6      555376.151 4176128.442 555343.177 4176094.331
   SRCPARAM PHASE1C7      0.00130497     2.000        4     1.400
   AREAVERT PHASE1C7      555172.354 4176309.620 555171.918 4176276.511
   AREAVERT PHASE1C7      555190.651 4176270.412 555191.086 4176319.204
   SRCPARAM PHASE1C8       0.00136       2.000        3     1.400
   AREAVERT PHASE1C8      555097.859 4176300.036 555158.413 4176281.303
   AREAVERT PHASE1C8      555157.978 4176305.699
   SRCPARAM PHASE1C9       0.00174       2.000        4     1.400
   AREAVERT PHASE1C9      555465.541 4176252.551 555485.145 4176238.610
   AREAVERT PHASE1C9      555499.086 4176258.650 555478.610 4176271.719
   SRCPARAM BIGGRN        0.00004222     2.000       37     1.400
   AREAVERT BIGGRN        555029.810 4176309.841 555034.775 4176307.712
   AREAVERT BIGGRN        555056.766 4176311.264 555078.757 4176306.693
   AREAVERT BIGGRN        555095.227 4176299.684 555156.375 4176304.494
   AREAVERT BIGGRN        555180.498 4176313.561 555190.688 4176317.728
   AREAVERT BIGGRN        555190.871 4176268.922 555220.481 4176229.149
   AREAVERT BIGGRN        555269.729 4176261.528 555284.861 4176248.543
   AREAVERT BIGGRN        555302.600 4176258.155 555325.892 4176296.823
   AREAVERT BIGGRN        555352.037 4176321.809 555368.667 4176338.301
   AREAVERT BIGGRN        555414.595 4176354.559 555388.540 4176371.676
   AREAVERT BIGGRN        555310.070 4176426.231 555283.832 4176397.478
   AREAVERT BIGGRN        555250.933 4176389.866 555224.117 4176346.599
   AREAVERT BIGGRN        555183.703 4176317.662 555156.791 4176308.220
   AREAVERT BIGGRN        555136.196 4176304.148 555094.898 4176303.969
   AREAVERT BIGGRN        555100.065 4176311.148 555111.259 4176316.378
   AREAVERT BIGGRN        555120.407 4176311.309 555130.908 4176328.864
   AREAVERT BIGGRN        555118.162 4176329.858 555096.816 4176337.700
   AREAVERT BIGGRN        555073.703 4176314.637 555065.264 4176320.737
   AREAVERT BIGGRN        555066.633 4176329.550 555053.251 4176320.710
   AREAVERT BIGGRN        555041.488 4176328.551
   SRCPARAM SHORE         0.00004573     2.000       34     1.400
   AREAVERT SHORE         555121.109 4176331.718 555131.497 4176329.200
   AREAVERT SHORE         555120.795 4176311.258 555111.666 4176315.979
   AREAVERT SHORE         555100.019 4176310.943 555095.298 4176304.332
   AREAVERT SHORE         555139.051 4176304.962 555181.231 4176316.923
   AREAVERT SHORE         555223.726 4176346.512 555250.797 4176390.266
   AREAVERT SHORE         555282.589 4176396.876 555309.345 4176427.095
   AREAVERT SHORE         555414.165 4176355.326 555448.161 4176368.232
   AREAVERT SHORE         555457.919 4176384.915 555450.364 4176391.525
   AREAVERT SHORE         555439.977 4176392.784 555396.223 4176437.797
   AREAVERT SHORE         555386.780 4176442.519 555364.116 4176479.662
   AREAVERT SHORE         555349.321 4176492.568 555338.619 4176505.789
   AREAVERT SHORE         555318.473 4176514.287 555275.664 4176487.217
   AREAVERT SHORE         555260.869 4176467.071 555248.593 4176442.204
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   AREAVERT SHORE         555190.045 4176373.583 555181.546 4176368.232
   AREAVERT SHORE         555166.122 4176353.437 555151.957 4176344.624
   AREAVERT SHORE         555139.051 4176340.217 555128.979 4176338.013
   SRCPARAM RPD1          0.0001082      2.000       24     1.400
   AREAVERT RPD1          554905.075 4176422.558 554980.246 4176369.605
   AREAVERT RPD1          554962.471 4176345.536 554982.468 4176331.094
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AREAVERT RPD1          555090.965 4176350.720 555088.373 4176352.942
AREAVERT RPD1          555091.335 4176355.534 555088.003 4176358.867
AREAVERT RPD1          555070.599 4176347.387 555049.121 4176367.383
AREAVERT RPD1          555080.226 4176393.675 555077.264 4176396.637
AREAVERT RPD1          555027.274 4176351.461 555010.980 4176372.197
AREAVERT RPD1          555012.462 4176379.603 554994.317 4176375.530
AREAVERT RPD1          554981.357 4176388.861 554906.927 4176439.221
SRCPARAM RPD2          0.000033686    2.000        35     1.400
AREAVERT RPD2          554918.029 4176546.199 554906.753 4176440.612
AREAVERT RPD2          554981.586 4176389.356 554993.375 4176376.542
AREAVERT RPD2          555012.339 4176378.080 555011.314 4176372.442
AREAVERT RPD2          555012.339 4176369.879 555015.927 4176368.854
AREAVERT RPD2          555025.153 4176383.206 555025.153 4176389.356
AREAVERT RPD2          555023.616 4176392.944 555039.505 4176411.909
AREAVERT RPD2          555047.706 4176416.009 555054.882 4176433.436
AREAVERT RPD2          555058.470 4176449.326 555067.696 4176465.215
AREAVERT RPD2          555076.922 4176479.054 555075.897 4176499.044
AREAVERT RPD2          555079.484 4176506.732 555079.997 4176524.159
AREAVERT RPD2          555053.656 4176549.977 555070.381 4176567.642
AREAVERT RPD2          555077.770 4176587.571 555066.158 4176604.118
AREAVERT RPD2          555063.595 4176622.570 555054.882 4176633.334
AREAVERT RPD2          555032.329 4176641.535 555015.415 4176631.283
AREAVERT RPD2          555006.701 4176620.007 554994.912 4176608.218
AREAVERT RPD2          554986.199 4176604.118 554961.084 4176568.239
AREAVERT RPD2          554957.496 4176547.224 554941.094 4176532.872
AREAVERT RPD2          554933.918 4176533.898
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AREAVERT PILE          555036.003 4176394.153 555071.892 4176358.264
AREAVERT PILE          555109.450 4176342.406 555136.159 4176344.075
AREAVERT PILE          555158.694 4176367.445 555172.048 4176399.996
AREAVERT PILE          555143.670 4176463.428 555163.702 4176542.718
AREAVERT PILE          555202.929 4176646.212 555161.198 4176702.133
AREAVERT PILE          555067.719 4176629.520 555086.915 4176589.457
AREAVERT PILE          555078.569 4176571.930 555061.423 4176547.953
AREAVERT PILE          555077.734 4176536.875 555085.246 4176496.813
AREAVERT PILE          555081.908 4176481.790 555064.380 4176442.562
AREAVERT PILE          555052.695 4176411.680
SRCPARAM PHASE2C1      0.00076988     2.000         6     1.400
AREAVERT PHASE2C1      555388.531 4176143.749 555402.038 4176131.985
AREAVERT PHASE2C1      555419.901 4176159.870 555443.865 4176189.062
AREAVERT PHASE2C1      555429.051 4176200.826 555407.702 4176174.684
SRCPARAM PHASE2C2       0.001207      2.000         4     1.400
AREAVERT PHASE2C2      555433.844 4176203.876 555446.044 4176196.033
AREAVERT PHASE2C2      555475.672 4176243.525 555462.165 4176250.932
SRCPARAM PHASE2C3      0.0003208      2.000        15     1.400
AREAVERT PHASE2C3      555354.546 4176254.417 555332.633 4176202.834
AREAVERT PHASE2C3      555346.815 4176191.596 555347.885 4176193.737
AREAVERT PHASE2C3      555368.221 4176180.893 555366.348 4176179.287
AREAVERT PHASE2C3      555384.008 4176170.190 555420.399 4176215.946
AREAVERT PHASE2C3      555404.611 4176227.451 555381.065 4176240.295
AREAVERT PHASE2C3      555373.037 4176223.973 555393.908 4176212.467
AREAVERT PHASE2C3      555380.529 4176195.610 555354.574 4176209.256
AREAVERT PHASE2C3      555371.699 4176246.717
SRCPARAM PHASE2C4      0.00096256     2.000         6     1.400
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    AREAVERT PHASE2C4      555314.438 4176245.647 555329.690 4176260.631
    SRCPARAM PHASE2C5      0.0008214    2.000        8    1.400
    AREAVERT PHASE2C5      555322.465 4176279.362 555338.252 4176268.391
    AREAVERT PHASE2C5      555355.377 4176294.881 555361.264 4176298.895
    AREAVERT PHASE2C5      555379.727 4176316.823 555366.883 4176330.737
    AREAVERT PHASE2C5      555348.688 4176312.006 555340.660 4176304.782
    SRCPARAM PHASE2C6      0.00092047   2.000       12    1.400
    AREAVERT PHASE2C6      555398.992 4176311.471 555408.625 4176301.571
    AREAVERT PHASE2C6      555417.188 4176297.022 555437.256 4176286.051
    AREAVERT PHASE2C6      555439.664 4176283.910 555461.873 4176268.123
    AREAVERT PHASE2C6      555469.365 4176280.699 555447.424 4176295.951
    AREAVERT PHASE2C6      555444.213 4176298.627 555423.877 4176309.330
    AREAVERT PHASE2C6      555419.328 4176312.809 555408.893 4176321.907
    SRCPARAM PHASE2C7      0.0004603    2.000       12    1.400
    AREAVERT PHASE2C7      555359.658 4176270.532 555389.092 4176301.035
    AREAVERT PHASE2C7      555401.133 4176288.994 555407.287 4176282.305
    AREAVERT PHASE2C7      555427.356 4176268.658 555444.213 4176261.166
    AREAVERT PHASE2C7      555426.553 4176225.578 555409.963 4176233.873
    AREAVERT PHASE2C7      555419.328 4176252.604 555396.584 4176267.588
    AREAVERT PHASE2C7      555388.557 4176272.940 555373.572 4176256.082
 ** LINE VOLUME Source ID = CONST
    SRCPARAM L0001430      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001431      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001432      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001433      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001434      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001435      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001436      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001437      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001438      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001439      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001440      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001441      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001442      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001443      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001444      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001445      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001446      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001447      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001448      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001449      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001450      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001451      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001452      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001453      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001454      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001455      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001456      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001457      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001458      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001459      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001460      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001461      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001462      0.0113636364    2.00      6.24      2.30
    SRCPARAM L0001463      0.0113636364    2.00      6.24      2.30
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    SRCPARAM L0001464      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001465      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001466      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001467      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001468      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001469      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001470      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001471      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001472      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001473      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001474      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001475      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001476      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001477      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001478      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001479      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001480      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001481      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001482      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001483      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001484      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001485      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001486      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001487      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001488      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001489      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001490      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001491      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001492      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001493      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001494      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001495      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001496      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001497      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001498      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001499      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001500      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001501      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001502      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001503      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001504      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001505      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001506      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001507      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001508      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001509      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001510      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001511      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001512      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001513      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001514      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001515      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001516      0.0113636364      2.00      6.24      2.30
    SRCPARAM L0001517      0.0113636364      2.00      6.24      2.30
** ----------------------------------------------------------------

** Variable Emissions Type: "By Hour / Day (HRDOW)"
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** WeekDays:
   EMISFACT GRADE       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GRADE       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GRADE       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT GRADE       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GRADE       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GRADE       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT GRADE       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C1    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C1    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C1    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C2    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C2    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C2    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C3    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C3    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C3    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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    EMISFACT PHASE1C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT PHASE2C1     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C3     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C3     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C3     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C4     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C4     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C4     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0001430      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001430      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001430      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001430      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001431      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001431      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001432      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001432      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001433      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001433      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001433      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001433      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001434      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001434      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001434      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001434      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001435      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001435      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001435      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001435      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001436      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001436      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001436      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001436      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001437      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001437      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001437      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001437      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001438      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001438      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001439      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001439      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001439      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001440      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001440      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001440      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001441      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001441      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001442      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001442      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001443      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001443      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001444      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001445      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001445      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001446      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001446      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001446      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001446      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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EMISFACT L0001447     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001459     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001461     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001464      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001465      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001465      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0001466      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001466      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001466      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001466      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001444     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
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EMISFACT L0001483     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001484     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001484      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001484      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001484      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001485      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001485      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001498      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001498      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001507      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0


    SRCGROUP GRADE      GRADE
    SRCGROUP PHASE1C1 PHASE1C1
    SRCGROUP PHASE1C2 PHASE1C2
    SRCGROUP PHASE1C3 PHASE1C3
    SRCGROUP PHASE1C4 PHASE1C4
    SRCGROUP PHASE1C5 PHASE1C5
    SRCGROUP PHASE1C6 PHASE1C6
    SRCGROUP PHASE1C7 PHASE1C7
    SRCGROUP PHASE1C8 PHASE1C8
    SRCGROUP PHASE1C9 PHASE1C9
    SRCGROUP BIGGRN    BIGGRN
    SRCGROUP SHORE     SHORE
    SRCGROUP RPD1      RPD1
    SRCGROUP RPD2      RPD2
    SRCGROUP PILE      PILE
    SRCGROUP PHASE2C1 PHASE2C1
    SRCGROUP PHASE2C2 PHASE2C2
    SRCGROUP PHASE2C3 PHASE2C3
    SRCGROUP PHASE2C4 PHASE2C4
    SRCGROUP PHASE2C5 PHASE2C5
    SRCGROUP PHASE2C6 PHASE2C6
    SRCGROUP PHASE2C7 PHASE2C7
    SRCGROUP CONST     L0001430 L0001431 L0001432 L0001433 L0001434 L0001435
    SRCGROUP CONST     L0001436 L0001437 L0001438 L0001439 L0001440 L0001441
    SRCGROUP CONST     L0001442 L0001443 L0001444 L0001445 L0001446 L0001447
    SRCGROUP CONST     L0001448 L0001449 L0001450 L0001451 L0001452 L0001453
    SRCGROUP CONST     L0001454 L0001455 L0001456 L0001457 L0001458 L0001459
    SRCGROUP CONST     L0001460 L0001461 L0001462 L0001463 L0001464 L0001465
    SRCGROUP CONST     L0001466 L0001467 L0001468 L0001469 L0001470 L0001471
    SRCGROUP CONST     L0001472 L0001473 L0001474 L0001475 L0001476 L0001477
    SRCGROUP CONST     L0001478 L0001479 L0001480 L0001481 L0001482 L0001483
    SRCGROUP CONST     L0001484 L0001485 L0001486 L0001487 L0001488 L0001489
    SRCGROUP CONST     L0001490 L0001491 L0001492 L0001493 L0001494 L0001495
    SRCGROUP CONST     L0001496 L0001497 L0001498 L0001499 L0001500 L0001501
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    SRCGROUP CONST     L0001502 L0001503 L0001504 L0001505 L0001506 L0001507
    SRCGROUP CONST     L0001508 L0001509 L0001510 L0001511 L0001512 L0001513
    SRCGROUP CONST     L0001514 L0001515 L0001516 L0001517
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
    INCLUDED PreCon.ROU
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
    SURFFILE mission_bay_2008.SFC
    PROFFILE mission_bay_2008.PFL
    SURFDATA 23234 2008
    UAIRDATA 23230 2008
    PROFBASE 2.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
OU RECTABLE ALLAVE 1
    PLOTFILE 1 GRADE 1ST Plots\GRADE_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C1 1ST Plots\PHASE1C1_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C2 1ST Plots\PHASE1C2_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C3 1ST Plots\PHASE1C3_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C4 1ST Plots\PHASE1C4_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C5 1ST Plots\PHASE1C5_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C6 1ST Plots\PHASE1C6_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C7 1ST Plots\PHASE1C7_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C8 1ST Plots\PHASE1C8_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE1C9 1ST Plots\PHASE1C9_1hr_2018-2020EP.PLT
    PLOTFILE 1 BIGGRN 1ST Plots\BIGGRN_1hr_2018-2020EP.PLT
    PLOTFILE 1 SHORE 1ST Plots\SHORE_1hr_2018-2020EP.PLT
    PLOTFILE 1 RPD1 1ST Plots\RPD1_1hr_2018-2020EP.PLT
    PLOTFILE 1 RPD2 1ST Plots\RPD2_1hr_2018-2020EP.PLT
    PLOTFILE 1 PILE 1ST Plots\PILE_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C1 1ST Plots\PHASE2C1_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C2 1ST Plots\PHASE2C2_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C3 1ST Plots\PHASE2C3_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C4 1ST Plots\PHASE2C4_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C5 1ST Plots\PHASE2C5_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C6 1ST Plots\PHASE2C6_1hr_2018-2020EP.PLT
    PLOTFILE 1 PHASE2C7 1ST Plots\PHASE2C7_1hr_2018-2020EP.PLT
    PLOTFILE 1 CONST 1ST Plots\CONST_1hr_2018-2020EP.PLT
```

```
    PLOTFILE PERIOD GRADE Plots\GRADE_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C1 Plots\PHASE1C1_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C2 Plots\PHASE1C2_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C3 Plots\PHASE1C3_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C4 Plots\PHASE1C4_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C5 Plots\PHASE1C5_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C6 Plots\PHASE1C6_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C7 Plots\PHASE1C7_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C8 Plots\PHASE1C8_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE1C9 Plots\PHASE1C9_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD BIGGRN Plots\BIGGRN_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD SHORE Plots\SHORE_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD RPD1 Plots\RPD1_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD RPD2 Plots\RPD2_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PILE Plots\PILE_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C1 Plots\PHASE2C1_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C2 Plots\PHASE2C2_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C3 Plots\PHASE2C3_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C4 Plots\PHASE2C4_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C5 Plots\PHASE2C5_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C6 Plots\PHASE2C6_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD PHASE2C7 Plots\PHASE2C7_Ann_2018-2020EP.PLT
    PLOTFILE PERIOD CONST Plots\CONST_Ann_2018-2020EP.PLT
OU FINISHED
**
*****************************************
** Project Parameters
*****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
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**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE 2020-2021 Existing Receptors - Residential Option
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   FLAGPOLE 1.80
   RUNORNOT RUN
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PHASE1C1     AREAPOLY    555026.479   4176281.861        6.096
   LOCATION PHASE1C2     AREAPOLY    555222.916   4176198.157        7.620
   LOCATION PHASE1C3     AREAPOLY    555289.282   4176118.664       12.192
   LOCATION PHASE1C4     AREAPOLY    555231.976   4176205.533        5.182
   LOCATION PHASE1C5     AREAPOLY    555317.935   4176185.976        6.096
   LOCATION PHASE1C6     AREAPOLY    555317.253   4176112.524        6.096
   LOCATION PHASE1C7     AREAPOLY    555172.354   4176309.620        4.572
   LOCATION PHASE1C8     AREAPOLY    555097.859   4176300.036        4.572
   LOCATION PHASE1C9     AREAPOLY    555465.541   4176252.551        4.572
   LOCATION BIGGRN       AREAPOLY    555029.810   4176309.841        4.572
   LOCATION SHORE        AREAPOLY    555121.109   4176331.718        4.572
   LOCATION RPD2         AREAPOLY    554918.029   4176546.199       15.180
   LOCATION PILE         AREAPOLY    555036.003   4176394.153        0.000
   LOCATION PHASE2C1     AREAPOLY    555388.531   4176143.749        5.791
   LOCATION PHASE2C2     AREAPOLY    555433.844   4176203.876        5.182
   LOCATION PHASE2C3     AREAPOLY    555354.546   4176254.417        5.182
   LOCATION PHASE2C4     AREAPOLY    555316.578   4176272.940        5.182
   LOCATION PHASE2C5     AREAPOLY    555322.465   4176279.362        4.572
   LOCATION PHASE2C6     AREAPOLY    555398.992   4176311.471        4.572
   LOCATION PHASE2C7     AREAPOLY    555359.658   4176270.532        5.182
   LOCATION BEACH        AREAPOLY    555456.986   4176385.345        4.572
   LOCATION EMGEN1       POINT       555132.289   4176268.496        4.572
   LOCATION EMGEN2       POINT       555244.723   4176214.288        5.182
   LOCATION EMGEN3       POINT       555244.697   4176254.889        4.572
   LOCATION EMGEN5       POINT       555130.892   4176268.960        4.572
   LOCATION EMGEN6       POINT       555246.510   4176214.828        5.182
   LOCATION EMGEN7       POINT       555246.148   4176255.337        4.572
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = CONST
** DESCRSRC
** PREFIX
** Length of Side = 13.41
```

```
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 8
** 555339.829, 4176031.731, 18.90, 2.00, 6.24
** 554903.494, 4176341.253, 12.12, 2.00, 6.24
** 554890.980, 4176370.453, 12.52, 2.00, 6.24
** 554890.980, 4176412.167, 12.52, 2.00, 6.24
** 554897.654, 4176446.373, 12.75, 2.00, 6.24
** 554913.506, 4176649.941, 14.38, 2.00, 6.24
** 554849.265, 4176789.267, 10.80, 2.00, 6.24
** 554702.430, 4176896.057, 9.06, 2.00, 6.24
** ----------------------------------------------------------------
   LOCATION L0001430     VOLUME    555334.360 4176035.610 18.82
   LOCATION L0001431     VOLUME    555323.423 4176043.369 18.65
   LOCATION L0001432     VOLUME    555312.485 4176051.128 18.48
   LOCATION L0001433     VOLUME    555301.548 4176058.887 18.31
   LOCATION L0001434     VOLUME    555290.610 4176066.645 18.14
   LOCATION L0001435     VOLUME    555279.672 4176074.404 17.97
   LOCATION L0001436     VOLUME    555268.735 4176082.163 17.80
   LOCATION L0001437     VOLUME    555257.797 4176089.922 17.63
   LOCATION L0001438     VOLUME    555246.860 4176097.680 17.46
   LOCATION L0001439     VOLUME    555235.922 4176105.439 17.29
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   LOCATION L0001441     VOLUME    555214.047 4176120.957 16.95
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    LOCATION L0001478      VOLUME     554898.204 4176453.434 12.81
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    LOCATION L0001481      VOLUME     554901.327 4176493.542 13.13
    LOCATION L0001482      VOLUME     554902.368 4176506.912 13.23
    LOCATION L0001483      VOLUME     554903.409 4176520.281 13.34
    LOCATION L0001484      VOLUME     554904.450 4176533.651 13.45
    LOCATION L0001485      VOLUME     554905.492 4176547.021 13.56
    LOCATION L0001486      VOLUME     554906.533 4176560.390 13.66
    LOCATION L0001487      VOLUME     554907.574 4176573.760 13.77
    LOCATION L0001488      VOLUME     554908.615 4176587.129 13.88
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    LOCATION L0001496      VOLUME     554894.966 4176690.151 13.35
    LOCATION L0001497      VOLUME     554889.351 4176702.328 13.03
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    LOCATION L0001502      VOLUME     554861.276 4176763.218 11.47
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    LOCATION L0001510      VOLUME     554785.703 4176835.495 10.05
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    LOCATION L0001514      VOLUME     554742.322 4176867.044 9.53
    LOCATION L0001515      VOLUME     554731.477 4176874.932 9.40
    LOCATION L0001516      VOLUME     554720.632 4176882.819 9.28
    LOCATION L0001517      VOLUME     554709.787 4176890.707 9.15
** End of LINE VOLUME Source ID = CONST

** Source Parameters **
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    AREAVERT PHASE1C1      555074.861 4176269.520 555058.346 4176243.383
    AREAVERT PHASE1C1      555093.159 4176218.728 555110.129 4176243.865
    AREAVERT PHASE1C1      555129.845 4176230.024 555139.976 4176222.985
    AREAVERT PHASE1C1      555123.661 4176198.157 555135.011 4176189.645
    AREAVERT PHASE1C1      555152.744 4176214.472 555186.084 4176189.645
    AREAVERT PHASE1C1      555198.852 4176208.798 555180.409 4176228.659
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   AREAVERT PHASE1C1      555152.717 4176248.321 555147.779 4176249.512
   AREAVERT PHASE1C1      555153.454 4176262.708 555133.792 4176267.728
   AREAVERT PHASE1C1      555132.628 4176266.764 555094.523 4176277.886
   AREAVERT PHASE1C1      555094.751 4176280.015 555057.518 4176286.854
   AREAVERT PHASE1C1      555045.150 4176285.034
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   AREAVERT PHASE1C2      555213.328 4176137.084 555215.375 4176139.813
   AREAVERT PHASE1C2      555216.967 4176138.903 555215.830 4176136.856
   AREAVERT PHASE1C2      555232.885 4176125.031 555234.250 4176126.623
   AREAVERT PHASE1C2      555235.159 4176125.941 555233.567 4176123.439
   AREAVERT PHASE1C2      555248.576 4176112.069 555267.451 4176139.585
   AREAVERT PHASE1C2      555252.442 4176149.591 555244.710 4176138.448
   AREAVERT PHASE1C2      555224.699 4176152.775 555232.430 4176164.373
   AREAVERT PHASE1C2      555224.699 4176168.921 555235.387 4176184.612
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   AREAVERT PHASE1C3      555284.734 4176083.871 555302.926 4176109.795
   SRCPARAM PHASE1C4      0.0004057     2.000       12     1.400
   AREAVERT PHASE1C4      555231.976 4176205.533 555251.760 4176172.104
   AREAVERT PHASE1C4      555261.766 4176177.562 555250.850 4176196.664
   AREAVERT PHASE1C4      555275.183 4176211.446 555284.279 4176202.804
   AREAVERT PHASE1C4      555256.763 4176155.731 555272.454 4176145.953
   AREAVERT PHASE1C4      555304.973 4176200.303 555289.964 4176212.583
   AREAVERT PHASE1C4      555284.506 4176218.723 555272.454 4176231.002
   SRCPARAM PHASE1C5      0.0004267     2.000        8     1.400
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   AREAVERT PHASE1C5      555299.060 4176125.941 555319.527 4176156.186
   AREAVERT PHASE1C5      555338.856 4176137.311 555324.757 4176120.028
   AREAVERT PHASE1C5      555339.084 4176109.795 555363.416 4176141.177
   SRCPARAM PHASE1C6      0.00070746    2.000        6     1.400
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   AREAVERT PHASE1C6      555351.136 4176075.229 555388.658 4176114.571
   AREAVERT PHASE1C6      555376.151 4176128.442 555343.177 4176094.331
   SRCPARAM PHASE1C7      0.00130497    2.000        4     1.400
   AREAVERT PHASE1C7      555172.354 4176309.620 555171.918 4176276.511
   AREAVERT PHASE1C7      555190.651 4176270.412 555191.086 4176319.204
   SRCPARAM PHASE1C8       0.00136      2.000        3     1.400
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   AREAVERT PHASE1C8      555157.978 4176305.699
   SRCPARAM PHASE1C9       0.00174      2.000        4     1.400
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   AREAVERT PHASE1C9      555499.086 4176258.650 555478.610 4176271.719
   SRCPARAM BIGGRN        0.00004222    2.000       37     1.400
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   AREAVERT BIGGRN        555056.766 4176311.264 555078.757 4176306.693
   AREAVERT BIGGRN        555095.227 4176299.684 555156.375 4176304.494
   AREAVERT BIGGRN        555180.498 4176313.561 555190.688 4176317.728
   AREAVERT BIGGRN        555190.871 4176268.922 555220.481 4176229.149
   AREAVERT BIGGRN        555269.729 4176261.528 555284.861 4176248.543
   AREAVERT BIGGRN        555302.600 4176258.155 555325.892 4176296.823
   AREAVERT BIGGRN        555352.037 4176321.809 555368.667 4176338.301
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   AREAVERT BIGGRN        555310.070 4176426.231 555283.832 4176397.478
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AREAVERT BIGGRN          555136.196 4176304.148 555094.898 4176303.969
AREAVERT BIGGRN          555100.065 4176311.148 555111.259 4176316.378
AREAVERT BIGGRN          555120.407 4176311.309 555130.908 4176328.864
AREAVERT BIGGRN          555118.162 4176329.858 555096.816 4176337.700
AREAVERT BIGGRN          555073.703 4176314.637 555065.264 4176320.737
AREAVERT BIGGRN          555066.633 4176329.550 555053.251 4176320.710
AREAVERT BIGGRN          555041.488 4176328.551
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AREAVERT SHORE           555100.019 4176310.943 555095.298 4176304.332
AREAVERT SHORE           555139.051 4176304.962 555181.231 4176316.923
AREAVERT SHORE           555223.726 4176346.512 555250.797 4176390.266
AREAVERT SHORE           555282.589 4176396.876 555309.345 4176427.095
AREAVERT SHORE           555414.165 4176355.326 555448.161 4176368.232
AREAVERT SHORE           555457.919 4176384.915 555450.364 4176391.525
AREAVERT SHORE           555439.977 4176392.784 555396.223 4176437.797
AREAVERT SHORE           555386.780 4176442.519 555364.116 4176479.662
AREAVERT SHORE           555349.321 4176492.568 555338.619 4176505.789
AREAVERT SHORE           555318.473 4176514.287 555275.664 4176487.217
AREAVERT SHORE           555260.869 4176467.071 555248.593 4176442.204
AREAVERT SHORE           555225.300 4176423.317 555204.210 4176394.043
AREAVERT SHORE           555190.045 4176373.583 555181.546 4176368.232
AREAVERT SHORE           555166.122 4176353.437 555151.957 4176344.624
AREAVERT SHORE           555139.051 4176340.217 555128.979 4176338.013
SRCPARAM RPD2            0.000033686     2.000        35     1.400
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AREAVERT RPD2            555012.339 4176378.080 555011.314 4176372.442
AREAVERT RPD2            555012.339 4176369.879 555015.927 4176368.854
AREAVERT RPD2            555025.153 4176383.206 555025.153 4176389.356
AREAVERT RPD2            555023.616 4176392.944 555039.505 4176411.909
AREAVERT RPD2            555047.706 4176416.009 555054.882 4176433.436
AREAVERT RPD2            555058.470 4176449.326 555067.696 4176465.215
AREAVERT RPD2            555076.922 4176479.054 555075.897 4176499.044
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AREAVERT RPD2            555053.656 4176549.977 555070.381 4176567.642
AREAVERT RPD2            555077.770 4176587.571 555066.158 4176604.118
AREAVERT RPD2            555063.595 4176622.570 555054.882 4176633.334
AREAVERT RPD2            555032.329 4176641.535 555015.415 4176631.283
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AREAVERT RPD2            554957.496 4176547.224 554941.094 4176532.872
AREAVERT RPD2            554933.918 4176533.898
SRCPARAM PILE            0.000031517     2.000        19     1.400
AREAVERT PILE            555036.003 4176394.153 555071.892 4176358.264
AREAVERT PILE            555109.450 4176342.406 555136.159 4176344.075
AREAVERT PILE            555158.694 4176367.445 555172.048 4176399.996
AREAVERT PILE            555143.670 4176463.428 555163.702 4176542.718
AREAVERT PILE            555202.929 4176646.212 555161.198 4176702.133
AREAVERT PILE            555067.719 4176629.520 555086.915 4176589.457
AREAVERT PILE            555078.569 4176571.930 555061.423 4176547.953
AREAVERT PILE            555077.734 4176536.875 555085.246 4176496.813
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AREAVERT PILE            555052.695 4176411.680
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   AREAVERT PHASE2C1    555429.051 4176200.826 555407.702 4176174.684
   SRCPARAM PHASE2C2       0.001207    2.000        4      1.400
   AREAVERT PHASE2C2    555433.844 4176203.876 555446.044 4176196.033
   AREAVERT PHASE2C2    555475.672 4176243.525 555462.165 4176250.932
   SRCPARAM PHASE2C3      0.0003208    2.000       15      1.400
   AREAVERT PHASE2C3    555354.546 4176254.417 555332.633 4176202.834
   AREAVERT PHASE2C3    555346.815 4176191.596 555347.885 4176193.737
   AREAVERT PHASE2C3    555368.221 4176180.893 555366.348 4176179.287
   AREAVERT PHASE2C3    555384.008 4176170.190 555420.399 4176215.946
   AREAVERT PHASE2C3    555404.611 4176227.451 555381.065 4176240.295
   AREAVERT PHASE2C3    555373.037 4176223.973 555393.908 4176212.467
   AREAVERT PHASE2C3    555380.529 4176195.610 555354.574 4176209.256
   AREAVERT PHASE2C3    555371.699 4176246.717
   SRCPARAM PHASE2C4      0.00096256    2.000        6      1.400
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   AREAVERT PHASE2C4    555313.100 4176219.959 555327.816 4176232.000
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   AREAVERT PHASE2C5    555322.465 4176279.362 555338.252 4176268.391
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   AREAVERT PHASE2C6    555444.213 4176298.627 555423.877 4176309.330
   AREAVERT PHASE2C6    555419.328 4176312.809 555408.893 4176321.907
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   AREAVERT PHASE2C7    555401.133 4176288.994 555407.287 4176282.305
   AREAVERT PHASE2C7    555427.356 4176268.658 555444.213 4176261.166
   AREAVERT PHASE2C7    555426.553 4176225.578 555409.963 4176233.873
   AREAVERT PHASE2C7    555419.328 4176252.604 555396.584 4176267.588
   AREAVERT PHASE2C7    555388.557 4176272.940 555373.572 4176256.082
   SRCPARAM BEACH        0.00019266    2.000       17      1.400
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   AREAVERT BEACH       555449.749 4176366.048 555432.864 4176355.193
   AREAVERT BEACH       555422.009 4176344.338 555431.055 4176326.850
   AREAVERT BEACH       555456.986 4176306.346 555493.169 4176309.965
   AREAVERT BEACH       555517.894 4176303.934 555531.764 4176294.285
   AREAVERT BEACH       555548.046 4176317.201 555527.542 4176332.277
   AREAVERT BEACH       555514.878 4176334.689 555501.008 4176349.765
   AREAVERT BEACH       555487.138 4176358.811 555470.253 4176367.857
   AREAVERT BEACH       555459.398 4176381.124
   SRCPARAM EMGEN1            1.0    25.384    739.817    45.30000       0.183
   SRCPARAM EMGEN2            1.0    19.593    739.817    45.30000       0.183
   SRCPARAM EMGEN3            1.0     5.572    739.817    45.30000       0.183
   SRCPARAM EMGEN5            1.0    25.384    739.817    45.30000       0.183
   SRCPARAM EMGEN6            1.0    19.593    739.817    45.30000       0.183
   SRCPARAM EMGEN7            1.0     5.572    739.817    45.30000       0.183

** LINE VOLUME Source ID = CONST
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SRCPARAM L0001458    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001459    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001460    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001461    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001462    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001463    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001464    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001465    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001466    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001467    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001468    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001469    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001470    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001471    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001472    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001473    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001474    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001475    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001476    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001477    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001478    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001479    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001480    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001481    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001482    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001483    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001484    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001485    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001486    0.0113636364    2.00    6.24    2.30
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   SRCPARAM L0001487      0.0113636364      2.00      6.24      2.30
   SRCPARAM L0001488      0.0113636364      2.00      6.24      2.30
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   SRCPARAM L0001508      0.0113636364      2.00      6.24      2.30
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   SRCPARAM L0001511      0.0113636364      2.00      6.24      2.30
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   SRCPARAM L0001513      0.0113636364      2.00      6.24      2.30
   SRCPARAM L0001514      0.0113636364      2.00      6.24      2.30
   SRCPARAM L0001515      0.0113636364      2.00      6.24      2.30
   SRCPARAM L0001516      0.0113636364      2.00      6.24      2.30
   SRCPARAM L0001517      0.0113636364      2.00      6.24      2.30
** -------------------------------------------------------------
** Building Downwash **
   BUILDHGT EMGEN1        24.38    24.38    24.38    24.38    24.38    24.38
   BUILDHGT EMGEN1        24.38    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN1        42.67    45.72    45.72    45.72    45.72    45.72
   BUILDHGT EMGEN1        24.38    24.38    24.38    24.38    24.38    24.38
   BUILDHGT EMGEN1        24.38    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN1        46.63    46.63    46.63    44.20    45.72    45.72

   BUILDHGT EMGEN2        44.20    44.20    44.20    44.20    44.20    44.20
   BUILDHGT EMGEN2        18.29    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN2        42.67    22.86    22.86    20.73    42.67    42.67
   BUILDHGT EMGEN2        44.20    44.20    44.20    44.20    44.20    44.20
   BUILDHGT EMGEN2        20.73    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN2        42.67    18.29    22.86    22.86    42.67    42.67

   BUILDHGT EMGEN3        44.20    44.20    44.20     4.57    42.67    42.67
   BUILDHGT EMGEN3        42.67    42.67    42.67    42.67    22.86    22.86
   BUILDHGT EMGEN3        22.86    22.86    18.29    18.29    18.29    42.67
   BUILDHGT EMGEN3        18.59    18.59     4.57     4.57    42.67    42.67
   BUILDHGT EMGEN3        42.67    42.67    42.67    42.67    20.73    22.86
   BUILDHGT EMGEN3        22.86    22.86    21.64    18.29    20.73    42.67

   BUILDHGT EMGEN5        24.38    24.38    24.38    24.38    24.38    24.38
   BUILDHGT EMGEN5        24.38    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN5        42.67    45.72    45.72    45.72    45.72    45.72
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BUILDHGT EMGEN5       24.38    24.38    24.38    24.38    24.38    24.38
BUILDHGT EMGEN5       24.38    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN5       46.63    46.63    46.63    44.20    45.72    45.72

BUILDHGT EMGEN6       44.20    44.20    44.20    44.20    44.20    44.20
BUILDHGT EMGEN6       18.29    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN6       42.67    22.86    22.86    20.73    20.73    42.67
BUILDHGT EMGEN6       44.20    44.20    44.20    44.20    44.20    44.20
BUILDHGT EMGEN6       20.73    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN6       42.67    18.29    22.86    22.86    22.86    42.67

BUILDHGT EMGEN7       44.20    44.20    44.20     4.57    42.67    42.67
BUILDHGT EMGEN7       42.67    42.67    42.67    42.67    22.86    22.86
BUILDHGT EMGEN7       22.86    22.86    18.29    18.29    18.29    42.67
BUILDHGT EMGEN7       18.59    18.59    13.72     4.57    42.67    42.67
BUILDHGT EMGEN7       42.67    42.67    42.67    42.67    20.73    22.86
BUILDHGT EMGEN7       22.86    22.86    21.64    18.29    20.73    42.67

BUILDWID EMGEN1       68.01    66.09    62.17    60.89    63.87    64.92
BUILDWID EMGEN1       63.99    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN1       41.41    40.99    41.90    41.54    39.92    37.08
BUILDWID EMGEN1       68.01    66.09    62.17    60.89    63.87    64.92
BUILDWID EMGEN1       63.99    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN1       39.59    41.42    42.00    43.61    39.92    37.08

BUILDWID EMGEN2       39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN2      107.12    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN2       41.41   103.36    99.97    68.37    42.68    42.68
BUILDWID EMGEN2       39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN2       25.95    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN2       41.41    76.66    34.50    34.23    42.68    42.68

BUILDWID EMGEN3       39.19    35.06    29.87     7.68    35.66    40.43
BUILDWID EMGEN3       43.98    46.19    46.99    46.37   109.21   105.17
BUILDWID EMGEN3      103.61   103.36    98.35    98.70    96.05    42.72
BUILDWID EMGEN3       30.02    28.94     8.18     7.68    35.66    40.43
BUILDWID EMGEN3       43.98    46.19    46.99    46.37    27.85   105.17
BUILDWID EMGEN3      103.61   103.36    23.58   103.89    73.76    42.72

BUILDWID EMGEN5       68.01    66.09    62.17    60.89    63.87    64.92
BUILDWID EMGEN5       63.99    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN5       41.41    40.99    41.90    41.54    39.92    37.08
BUILDWID EMGEN5       68.01    66.09    62.17    60.89    63.87    64.92
BUILDWID EMGEN5       63.99    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN5       39.59    41.42    42.00    43.55    39.92    37.08

BUILDWID EMGEN6       39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN6      107.12    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN6       41.41   103.36    99.97    68.37    73.76    42.74
BUILDWID EMGEN6       39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN6       21.17    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN6       41.41    76.66    34.50    34.23    32.92    42.74

BUILDWID EMGEN7       39.19    35.06    29.87     7.68    35.66    40.43
BUILDWID EMGEN7       43.98    46.19    46.99    46.37   109.21   105.17
BUILDWID EMGEN7      103.61   103.36    98.35    98.70    96.05    42.72
BUILDWID EMGEN7       30.02    28.94    45.61     7.68    35.66    40.43
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BUILDWID	EMGEN7	43.98	46.19	46.99	46.37	27.85	105.17
BUILDWID	EMGEN7	103.61	103.36	23.58	103.89	73.76	42.72
BUILDLEN	EMGEN1	49.94	44.33	42.69	47.08	54.50	60.26
BUILDLEN	EMGEN1	64.18	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN1	29.81	26.57	31.07	34.63	37.14	38.52
BUILDLEN	EMGEN1	49.94	44.33	42.69	47.08	54.50	60.26
BUILDLEN	EMGEN1	64.18	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN1	20.36	24.63	28.15	40.38	37.14	38.52
BUILDLEN	EMGEN2	40.15	37.84	37.35	39.59	41.42	43.11
BUILDLEN	EMGEN2	98.70	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN2	29.81	70.66	81.29	75.56	41.57	41.49
BUILDLEN	EMGEN2	40.15	37.84	37.35	39.59	41.42	43.11
BUILDLEN	EMGEN2	32.07	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN2	29.81	51.26	27.03	30.17	41.57	41.49
BUILDLEN	EMGEN3	40.15	37.84	37.35	7.76	40.99	41.90
BUILDLEN	EMGEN3	41.54	39.92	38.80	37.03	66.09	62.17
BUILDLEN	EMGEN3	60.89	70.66	103.60	107.12	107.39	41.49
BUILDLEN	EMGEN3	29.41	30.15	8.22	7.76	40.99	41.90
BUILDLEN	EMGEN3	41.54	39.92	38.80	37.03	20.12	62.17
BUILDLEN	EMGEN3	60.89	70.66	26.12	71.03	71.93	41.49
BUILDLEN	EMGEN5	49.94	44.33	42.69	47.08	54.50	60.26
BUILDWID	EMGEN5	64.18	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN5	29.81	26.57	31.07	34.63	37.14	38.52
BUILDLEN	EMGEN5	49.94	44.33	42.69	47.08	54.50	60.26
BUILDLEN	EMGEN5	64.18	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN5	20.36	24.63	28.15	40.38	37.14	38.52
BUILDLEN	EMGEN6	40.15	37.84	37.35	39.59	41.42	43.11
BUILDLEN	EMGEN6	98.70	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN6	29.81	70.66	81.29	75.56	71.93	41.49
BUILDLEN	EMGEN6	40.15	37.84	37.35	39.59	41.42	43.11
BUILDLEN	EMGEN6	20.09	39.92	38.80	37.03	34.14	30.21
BUILDLEN	EMGEN6	29.81	51.26	27.03	30.17	32.40	41.49
BUILDLEN	EMGEN7	40.15	37.84	37.35	7.76	40.99	41.90
BUILDLEN	EMGEN7	41.54	39.92	38.80	37.03	66.09	62.17
BUILDLEN	EMGEN7	60.89	70.66	103.60	107.12	107.39	41.49
BUILDLEN	EMGEN7	29.41	30.15	77.19	7.76	40.99	41.90
BUILDLEN	EMGEN7	41.54	39.92	38.80	37.03	20.12	62.17
BUILDLEN	EMGEN7	60.89	70.66	26.12	71.03	71.93	41.49
XBADJ	EMGEN1	−50.56	−42.27	−32.69	−27.79	−26.50	−24.41
XBADJ	EMGEN1	−21.58	8.16	15.00	21.39	27.13	32.04
XBADJ	EMGEN1	33.01	30.04	26.16	21.48	16.15	10.33
XBADJ	EMGEN1	0.63	−2.07	−10.00	−19.29	−27.99	−35.84
XBADJ	EMGEN1	−42.60	−48.07	−53.80	−58.42	−61.27	−62.25
XBADJ	EMGEN1	−137.38	−143.28	−144.82	−151.53	−53.29	−48.85
XBADJ	EMGEN2	−81.78	−83.55	−82.79	−83.37	−82.21	−78.56
XBADJ	EMGEN2	−31.55	−93.15	−97.43	−98.75	−97.06	−92.43
XBADJ	EMGEN2	−87.96	−118.76	−117.86	21.75	29.34	36.03
XBADJ	EMGEN2	41.63	45.72	45.44	43.78	40.79	35.46
XBADJ	EMGEN2	−130.12	53.24	58.63	61.71	62.92	62.22

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    XBADJ     EMGEN2      58.16   -125.27   -132.50   -135.70    -70.91    -77.52

    XBADJ     EMGEN3    -121.76   -121.70   -117.94     -5.55    -90.36    -96.60
    XBADJ     EMGEN3     -99.91   -100.18    -97.41    -91.68   -115.11   -104.08
    XBADJ     EMGEN3     -92.94    -87.65     34.90     32.24     28.59     76.63
    XBADJ     EMGEN3      34.76     31.69     -1.81     -2.21     49.37     54.70
    XBADJ     EMGEN3      58.37     60.27     58.61     54.64   -122.34     41.90
    XBADJ     EMGEN3      32.05     16.98   -122.78   -139.36   -141.26   -118.12

    XBADJ     EMGEN5     -50.77    -42.22    -32.39    -27.24    -25.73    -23.43
    XBADJ     EMGEN5     -20.42      9.45     16.40     22.85     28.60     33.48
    XBADJ     EMGEN5      34.38     31.29     27.25     22.39     16.85     10.79
    XBADJ     EMGEN5       0.84     -2.11    -10.30    -19.84    -28.77    -36.83
    XBADJ     EMGEN5     -43.76    -49.37    -55.20    -59.88    -62.74    -63.69
    XBADJ     EMGEN5    -138.75   -144.53   -145.92   -152.44    -53.99    -49.31

    XBADJ     EMGEN6     -82.62    -84.67    -84.15    -84.93    -83.93    -80.38
    XBADJ     EMGEN6     -33.41    -95.01    -99.22   -100.42    -98.56    -93.71
    XBADJ     EMGEN6     -88.99   -119.50   -118.29     21.65     29.56     36.57
    XBADJ     EMGEN6      42.47     46.84     46.80     45.34     42.51     37.28
    XBADJ     EMGEN6    -121.58     55.09     60.42     63.38     64.42     63.50
    XBADJ     EMGEN6      59.18   -124.54   -132.07   -135.60   -135.00    -78.06

    XBADJ     EMGEN7    -122.45   -122.62   -119.05     -6.83    -91.76    -98.09
    XBADJ     EMGEN7    -101.43   -101.69    -98.86    -93.03   -116.32   -105.11
    XBADJ     EMGEN7     -93.76    -88.23     34.57     32.17     28.79     77.08
    XBADJ     EMGEN7      35.45     32.61      7.92     -0.94     50.77     56.18
    XBADJ     EMGEN7      59.89     61.77     60.06     55.99   -121.13     42.93
    XBADJ     EMGEN7      32.87     17.57   -122.44   -139.29   -141.45   -118.57

    YBADJ     EMGEN1     -24.42    -28.22    -31.16    -32.37    -33.76    -34.13
    YBADJ     EMGEN1     -33.46    -39.24    -33.82    -27.38    -20.10    -11.34
    YBADJ     EMGEN1      -1.41      7.50     14.89     21.83     28.11     33.54
    YBADJ     EMGEN1      24.42     28.22     31.16     32.37     33.76     34.13
    YBADJ     EMGEN1      33.46     39.24     33.82     27.38     20.10     11.34
    YBADJ     EMGEN1      32.83     10.22    -12.70    -36.64    -28.11    -33.54

    YBADJ     EMGEN2      22.66     11.60      0.19    -10.95    -22.06    -32.49
    YBADJ     EMGEN2     -47.64     33.67     20.38      6.48     -7.61    -20.61
    YBADJ     EMGEN2     -32.16    -26.11    -44.69    -38.34    -42.39    -33.02
    YBADJ     EMGEN2     -22.66    -11.60     -0.19     10.95     22.06     32.49
    YBADJ     EMGEN2      20.24    -33.67    -20.38     -6.48      7.61     20.61
    YBADJ     EMGEN2      32.16     18.54     19.61     -1.38     42.39     33.02

    YBADJ     EMGEN3      15.59     -2.31    -20.13     -3.82     34.81     21.62
    YBADJ     EMGEN3       7.77     -6.32    -20.22    -33.50    -13.32    -24.52
    YBADJ     EMGEN3     -37.82    -52.19    -15.21      3.94     22.96    -33.00
    YBADJ     EMGEN3      11.28     19.65      3.47      3.82    -34.81    -21.62
    YBADJ     EMGEN3      -7.77      6.32     20.22     33.50    -21.62     24.52
    YBADJ     EMGEN3      37.82     52.19    -22.18     15.59     34.43     33.00

    YBADJ     EMGEN5     -25.88    -29.69    -32.61    -33.74    -35.02    -35.23
    YBADJ     EMGEN5     -34.38    -39.94    -34.28    -27.59    -20.06    -11.04
    YBADJ     EMGEN5      -0.87      8.27     15.87     22.99     29.41     34.94
    YBADJ     EMGEN5      25.88     29.69     32.61     33.74     35.02     35.23
    YBADJ     EMGEN5      34.38     39.94     34.28     27.59     20.06     11.04
    YBADJ     EMGEN5      32.28      9.44    -13.68    -37.80    -29.41    -34.94
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   YBADJ      EMGEN6         24.33     13.10      1.47     -9.92    -21.32    -32.07
   YBADJ      EMGEN6        -47.54     33.45     19.84      5.64     -8.73    -21.98
   YBADJ      EMGEN6        -33.72    -27.82    -46.51    -40.21    -29.26    -34.81
   YBADJ      EMGEN6        -24.33    -13.10     -1.47      9.92     21.32     32.07
   YBADJ      EMGEN6         11.17    -33.45    -19.84     -5.64      8.73     21.98
   YBADJ      EMGEN6         33.72     20.26     21.43      0.49    -20.48     34.81

   YBADJ      EMGEN7         16.94     -1.10    -19.10     -3.00     35.40     21.95
   YBADJ      EMGEN7          7.84     -6.51    -20.67    -34.19    -14.24    -25.64
   YBADJ      EMGEN7        -39.09    -53.59    -16.69      2.42     21.45    -34.45
   YBADJ      EMGEN7          9.93     18.45     29.51      3.00    -35.40    -21.95
   YBADJ      EMGEN7         -7.84      6.51     20.67     34.19    -20.71     25.64
   YBADJ      EMGEN7         39.09     53.59    -20.70     17.11     35.94     34.45
** Variable Emissions Type: "By Hour / Day (HRDOW)"
** WeekDays:
   EMISFACT PHASE1C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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    EMISFACT PHASE1C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE1C9      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE1C9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT SHORE        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT SHORE        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT RPD2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT RPD2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT RPD2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PILE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PILE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PILE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C2     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PHASE2C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT BEACH         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BEACH         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BEACH         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BEACH         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT BEACH         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BEACH         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BEACH         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT BEACH         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT BEACH         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BEACH         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BEACH         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT BEACH         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT L0001430      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001430      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001430      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001430      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001431      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001431      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001431      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001431      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001432      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001432      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001432    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001432    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001433    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001433    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001433    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001433    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001434    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001434    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001434    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001435    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001435    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001435    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001435    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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EMISFACT L0001436    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001436    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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EMISFACT L0001437    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001437    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001437    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001438    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001438    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001438    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001439    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001439    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001440    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001446    HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001446    HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0001489      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001489      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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     EMISFACT L0001489      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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     EMISFACT L0001490      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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     EMISFACT L0001491      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT L0001491      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
     EMISFACT L0001491      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
     EMISFACT L0001492      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT L0001492      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
     EMISFACT L0001492      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
     EMISFACT L0001493      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0001493      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
     EMISFACT L0001493      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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     EMISFACT L0001494      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
     EMISFACT L0001494      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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     EMISFACT L0001495      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0001495      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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     EMISFACT L0001503      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT L0001503      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001505     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001506     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001507     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001507     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001510     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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    EMISFACT L0001443    HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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EMISFACT L0001505     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001506     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001506     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001506     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001506     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001507     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001507     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001507     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001507     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001508     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001508     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001508     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001508     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001509     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001509     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001509     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001509     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001510     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001510     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001510     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001510     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001511     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001511     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001511     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001511     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001512     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001512     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
    EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0


    SRCGROUP PHASE1C1 PHASE1C1
    SRCGROUP PHASE1C2 PHASE1C2
    SRCGROUP PHASE1C3 PHASE1C3
    SRCGROUP PHASE1C4 PHASE1C4
    SRCGROUP PHASE1C5 PHASE1C5
    SRCGROUP PHASE1C6 PHASE1C6
    SRCGROUP PHASE1C7 PHASE1C7
    SRCGROUP PHASE1C8 PHASE1C8
    SRCGROUP PHASE1C9 PHASE1C9
    SRCGROUP BIGGRN   BIGGRN
    SRCGROUP SHORE    SHORE
    SRCGROUP RPD2     RPD2
    SRCGROUP PILE     PILE
    SRCGROUP PHASE2C1 PHASE2C1
    SRCGROUP PHASE2C2 PHASE2C2
    SRCGROUP PHASE2C3 PHASE2C3
    SRCGROUP PHASE2C4 PHASE2C4
    SRCGROUP PHASE2C5 PHASE2C5
    SRCGROUP PHASE2C6 PHASE2C6
    SRCGROUP PHASE2C7 PHASE2C7
    SRCGROUP BEACH    BEACH
    SRCGROUP EMGEN1   EMGEN1
    SRCGROUP EMGEN2   EMGEN2
    SRCGROUP EMGEN3   EMGEN3
    SRCGROUP EMGEN5   EMGEN5
    SRCGROUP EMGEN6   EMGEN6
    SRCGROUP EMGEN7   EMGEN7
    SRCGROUP CONST    L0001430 L0001431 L0001432 L0001433 L0001434 L0001435
    SRCGROUP CONST    L0001436 L0001437 L0001438 L0001439 L0001440 L0001441
    SRCGROUP CONST    L0001442 L0001443 L0001444 L0001445 L0001446 L0001447
    SRCGROUP CONST    L0001448 L0001449 L0001450 L0001451 L0001452 L0001453
    SRCGROUP CONST    L0001454 L0001455 L0001456 L0001457 L0001458 L0001459
    SRCGROUP CONST    L0001460 L0001461 L0001462 L0001463 L0001464 L0001465
```

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    SRCGROUP CONST      L0001466 L0001467 L0001468 L0001469 L0001470 L0001471
    SRCGROUP CONST      L0001472 L0001473 L0001474 L0001475 L0001476 L0001477
    SRCGROUP CONST      L0001478 L0001479 L0001480 L0001481 L0001482 L0001483
    SRCGROUP CONST      L0001484 L0001485 L0001486 L0001487 L0001488 L0001489
    SRCGROUP CONST      L0001490 L0001491 L0001492 L0001493 L0001494 L0001495
    SRCGROUP CONST      L0001496 L0001497 L0001498 L0001499 L0001500 L0001501
    SRCGROUP CONST      L0001502 L0001503 L0001504 L0001505 L0001506 L0001507
    SRCGROUP CONST      L0001508 L0001509 L0001510 L0001511 L0001512 L0001513
    SRCGROUP CONST      L0001514 L0001515 L0001516 L0001517
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
    INCLUDED PreCon.ROU
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
    SURFFILE mission_bay_2008.SFC
    PROFFILE mission_bay_2008.PFL
    SURFDATA 23234 2008
    UAIRDATA 23230 2008
    PROFBASE 2.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
OU RECTABLE ALLAVE 1
    PLOTFILE 1 PHASE1C1 1ST Plots\PHASE1C1_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C2 1ST Plots\PHASE1C2_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C3 1ST Plots\PHASE1C3_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C4 1ST Plots\PHASE1C4_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C5 1ST Plots\PHASE1C5_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C6 1ST Plots\PHASE1C6_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C7 1ST Plots\PHASE1C7_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C8 1ST Plots\PHASE1C8_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE1C9 1ST Plots\PHASE1C9_1hr_2021-2022EP.PLT
    PLOTFILE 1 BIGGRN 1ST Plots\BIGGRN_1hr_2021-2022EP.PLT
    PLOTFILE 1 SHORE 1ST Plots\SHORE_1hr_2021-2022EP.PLT
    PLOTFILE 1 RPD2 1ST Plots\RPD2_1hr_2021-2022EP.PLT
    PLOTFILE 1 PILE 1ST Plots\PILE_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE2C1 1ST Plots\PHASE2C1_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE2C2 1ST Plots\PHASE2C2_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE2C3 1ST Plots\PHASE2C3_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE2C4 1ST Plots\PHASE2C4_1hr_2021-2022EP.PLT
```

```
    PLOTFILE 1 PHASE2C5 1ST Plots\PHASE2C5_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE2C6 1ST Plots\PHASE2C6_1hr_2021-2022EP.PLT
    PLOTFILE 1 PHASE2C7 1ST Plots\PHASE2C7_1hr_2021-2022EP.PLT
    PLOTFILE 1 EMGEN1 1ST Plots\EMGEN1_1hr_2021-2022EP.PLT
    PLOTFILE 1 EMGEN2 1ST Plots\EMGEN2_1hr_2021-2022EP.PLT
    PLOTFILE 1 EMGEN3 1ST Plots\EMGEN3_1hr_2021-2022EP.PLT
    PLOTFILE 1 EMGEN5 1ST Plots\EMGEN5_1hr_2021-2022EP.PLT
    PLOTFILE 1 EMGEN6 1ST Plots\EMGEN6_1hr_2021-2022EP.PLT
    PLOTFILE 1 EMGEN7 1ST Plots\EMGEN7_1hr_2021-2022EP.PLT
    PLOTFILE 1 CONST 1ST Plots\CONST_1hr_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C1 Plots\PHASE1C1_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C2 Plots\PHASE1C2_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C3 Plots\PHASE1C3_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C4 Plots\PHASE1C4_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C5 Plots\PHASE1C5_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C6 Plots\PHASE1C6_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C7 Plots\PHASE1C7_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C8 Plots\PHASE1C8_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE1C9 Plots\PHASE1C9_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD BIGGRN Plots\BIGGRN_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD SHORE Plots\SHORE_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD RPD2 Plots\RPD2_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PILE Plots\PILE_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C1 Plots\PHASE2C1_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C2 Plots\PHASE2C2_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C3 Plots\PHASE2C3_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C4 Plots\PHASE2C4_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C5 Plots\PHASE2C5_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C6 Plots\PHASE2C6_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD PHASE2C7 Plots\PHASE2C7_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD EMGEN1 Plots\EMGEN1_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD EMGEN2 Plots\EMGEN2_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD EMGEN3 Plots\EMGEN3_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD EMGEN5 Plots\EMGEN5_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD EMGEN6 Plots\EMGEN6_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD EMGEN7 Plots\EMGEN7_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD BEACH Plots\BEACH_Ann_2021-2022EP.PLT
    PLOTFILE PERIOD CONST Plots\CONST_Ann_2021-2022EP.PLT
OU FINISHED
**
*****************************************
** Project Parameters
*****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

```
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE Operations Existing Receptors – Residential Option
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   FLAGPOLE 1.80
   RUNORNOT RUN
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID – Type – X Coord. – Y Coord. **
   LOCATION EMGEN1        POINT       555132.289  4176268.496       4.572
   LOCATION EMGEN2        POINT       555244.723  4176214.288       5.182
   LOCATION EMGEN3        POINT       555244.697  4176254.889       4.572
   LOCATION EMGEN4        POINT       555413.890  4176206.195       5.182
   LOCATION EMGEN5        POINT       555130.892  4176268.960       4.572
   LOCATION EMGEN6        POINT       555246.510  4176214.828       5.182
   LOCATION EMGEN7        POINT       555246.148  4176255.337       4.572
   LOCATION EMGEN8        POINT       555415.054  4176207.595       5.182
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = INNESN
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 554678.517, 4176495.353, 31.97, 2.00, 6.24
** 555496.302, 4175923.596, 19.10, 2.00, 6.24
** ----------------------------------------------------------------
   LOCATION L0000001     VOLUME      554684.012 4176491.511 31.88
   LOCATION L0000002     VOLUME      554695.002 4176483.827 31.71
   LOCATION L0000003     VOLUME      554705.993 4176476.143 31.54
   LOCATION L0000004     VOLUME      554716.983 4176468.459 31.36
   LOCATION L0000005     VOLUME      554727.973 4176460.776 31.19
   LOCATION L0000006     VOLUME      554738.963 4176453.092 31.02
   LOCATION L0000007     VOLUME      554749.954 4176445.408 30.85
   LOCATION L0000008     VOLUME      554760.944 4176437.724 30.67
   LOCATION L0000009     VOLUME      554771.934 4176430.040 30.50
   LOCATION L0000010     VOLUME      554782.925 4176422.356 30.33
   LOCATION L0000011     VOLUME      554793.915 4176414.672 30.15
```

```
LOCATION L0000012     VOLUME     554804.905 4176406.988 29.98
LOCATION L0000013     VOLUME     554815.895 4176399.304 29.81
LOCATION L0000014     VOLUME     554826.886 4176391.621 29.64
LOCATION L0000015     VOLUME     554837.876 4176383.937 29.46
LOCATION L0000016     VOLUME     554848.866 4176376.253 29.29
LOCATION L0000017     VOLUME     554859.856 4176368.569 29.12
LOCATION L0000018     VOLUME     554870.847 4176360.885 28.94
LOCATION L0000019     VOLUME     554881.837 4176353.201 28.77
LOCATION L0000020     VOLUME     554892.827 4176345.517 28.60
LOCATION L0000021     VOLUME     554903.818 4176337.833 28.42
LOCATION L0000022     VOLUME     554914.808 4176330.150 28.25
LOCATION L0000023     VOLUME     554925.798 4176322.466 28.08
LOCATION L0000024     VOLUME     554936.788 4176314.782 27.91
LOCATION L0000025     VOLUME     554947.779 4176307.098 27.73
LOCATION L0000026     VOLUME     554958.769 4176299.414 27.56
LOCATION L0000027     VOLUME     554969.759 4176291.730 27.39
LOCATION L0000028     VOLUME     554980.749 4176284.046 27.21
LOCATION L0000029     VOLUME     554991.740 4176276.362 27.04
LOCATION L0000030     VOLUME     555002.730 4176268.678 26.87
LOCATION L0000031     VOLUME     555013.720 4176260.995 26.69
LOCATION L0000032     VOLUME     555024.711 4176253.311 26.52
LOCATION L0000033     VOLUME     555035.701 4176245.627 26.35
LOCATION L0000034     VOLUME     555046.691 4176237.943 26.18
LOCATION L0000035     VOLUME     555057.681 4176230.259 26.00
LOCATION L0000036     VOLUME     555068.672 4176222.575 25.83
LOCATION L0000037     VOLUME     555079.662 4176214.891 25.66
LOCATION L0000038     VOLUME     555090.652 4176207.207 25.48
LOCATION L0000039     VOLUME     555101.642 4176199.524 25.31
LOCATION L0000040     VOLUME     555112.633 4176191.840 25.14
LOCATION L0000041     VOLUME     555123.623 4176184.156 24.97
LOCATION L0000042     VOLUME     555134.613 4176176.472 24.79
LOCATION L0000043     VOLUME     555145.603 4176168.788 24.62
LOCATION L0000044     VOLUME     555156.594 4176161.104 24.45
LOCATION L0000045     VOLUME     555167.584 4176153.420 24.27
LOCATION L0000046     VOLUME     555178.574 4176145.736 24.10
LOCATION L0000047     VOLUME     555189.565 4176138.052 23.93
LOCATION L0000048     VOLUME     555200.555 4176130.369 23.75
LOCATION L0000049     VOLUME     555211.545 4176122.685 23.58
LOCATION L0000050     VOLUME     555222.535 4176115.001 23.41
LOCATION L0000051     VOLUME     555233.526 4176107.317 23.24
LOCATION L0000052     VOLUME     555244.516 4176099.633 23.06
LOCATION L0000053     VOLUME     555255.506 4176091.949 22.89
LOCATION L0000054     VOLUME     555266.496 4176084.265 22.72
LOCATION L0000055     VOLUME     555277.487 4176076.581 22.54
LOCATION L0000056     VOLUME     555288.477 4176068.898 22.37
LOCATION L0000057     VOLUME     555299.467 4176061.214 22.20
LOCATION L0000058     VOLUME     555310.458 4176053.530 22.02
LOCATION L0000059     VOLUME     555321.448 4176045.846 21.85
LOCATION L0000060     VOLUME     555332.438 4176038.162 21.68
LOCATION L0000061     VOLUME     555343.428 4176030.478 21.51
LOCATION L0000062     VOLUME     555354.419 4176022.794 21.33
LOCATION L0000063     VOLUME     555365.409 4176015.110 21.16
LOCATION L0000064     VOLUME     555376.399 4176007.426 20.99
LOCATION L0000065     VOLUME     555387.389 4175999.743 20.81
LOCATION L0000066     VOLUME     555398.380 4175992.059 20.64
LOCATION L0000067     VOLUME     555409.370 4175984.375 20.47
LOCATION L0000068     VOLUME     555420.360 4175976.691 20.30
```

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   LOCATION L0000069     VOLUME     555431.351 4175969.007 20.12
   LOCATION L0000070     VOLUME     555442.341 4175961.323 19.95
   LOCATION L0000071     VOLUME     555453.331 4175953.639 19.78
   LOCATION L0000072     VOLUME     555464.321 4175945.955 19.60
   LOCATION L0000073     VOLUME     555475.312 4175938.271 19.43
   LOCATION L0000074     VOLUME     555486.302 4175930.588 19.26
** End of LINE VOLUME Source ID = INNESN
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = HAWES
** DESCRSRC
** PREFIX
** Length of Side = 18.29
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 554840.757, 4176392.088, 13.29, 2.00, 8.51
** 554886.921, 4176450.987, 12.78, 2.00, 8.51
** ----------------------------------------------------------------
   LOCATION L0000688     VOLUME     554846.398 4176399.286 13.23
   LOCATION L0000689     VOLUME     554857.681 4176413.681 13.10
   LOCATION L0000690     VOLUME     554868.964 4176428.076 12.98
   LOCATION L0000691     VOLUME     554880.247 4176442.471 12.85
** End of LINE VOLUME Source ID = HAWES
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = HUNT
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 554892.236, 4176367.914, 12.49, 2.00, 6.24
** 554910.687, 4176653.908, 14.47, 2.00, 6.24
** 554851.233, 4176783.066, 10.77, 2.00, 6.24
** ----------------------------------------------------------------
   LOCATION L0000692     VOLUME     554892.668 4176374.605 12.54
   LOCATION L0000693     VOLUME     554893.531 4176387.987 12.63
   LOCATION L0000694     VOLUME     554894.394 4176401.369 12.72
   LOCATION L0000695     VOLUME     554895.258 4176414.752 12.81
   LOCATION L0000696     VOLUME     554896.121 4176428.134 12.91
   LOCATION L0000697     VOLUME     554896.984 4176441.516 13.00
   LOCATION L0000698     VOLUME     554897.848 4176454.898 13.09
   LOCATION L0000699     VOLUME     554898.711 4176468.280 13.18
   LOCATION L0000700     VOLUME     554899.575 4176481.663 13.28
   LOCATION L0000701     VOLUME     554900.438 4176495.045 13.37
   LOCATION L0000702     VOLUME     554901.301 4176508.427 13.46
   LOCATION L0000703     VOLUME     554902.165 4176521.809 13.56
   LOCATION L0000704     VOLUME     554903.028 4176535.191 13.65
   LOCATION L0000705     VOLUME     554903.891 4176548.573 13.74
   LOCATION L0000706     VOLUME     554904.755 4176561.956 13.83
   LOCATION L0000707     VOLUME     554905.618 4176575.338 13.93
```

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   LOCATION L0000708     VOLUME    554906.481 4176588.720 14.02
   LOCATION L0000709     VOLUME    554907.345 4176602.102 14.11
   LOCATION L0000710     VOLUME    554908.208 4176615.484 14.20
   LOCATION L0000711     VOLUME    554909.071 4176628.866 14.30
   LOCATION L0000712     VOLUME    554909.935 4176642.249 14.39
   LOCATION L0000713     VOLUME    554909.965 4176655.476 14.43
   LOCATION L0000714     VOLUME    554904.358 4176667.658 14.08
   LOCATION L0000715     VOLUME    554898.750 4176679.839 13.73
   LOCATION L0000716     VOLUME    554893.143 4176692.020 13.38
   LOCATION L0000717     VOLUME    554887.536 4176704.202 13.03
   LOCATION L0000718     VOLUME    554881.928 4176716.383 12.68
   LOCATION L0000719     VOLUME    554876.321 4176728.565 12.33
   LOCATION L0000720     VOLUME    554870.714 4176740.746 11.98
   LOCATION L0000721     VOLUME    554865.106 4176752.927 11.63
   LOCATION L0000722     VOLUME    554859.499 4176765.109 11.28
   LOCATION L0000723     VOLUME    554853.892 4176777.290 10.94
** End of LINE VOLUME Source ID = HUNT
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EVANS
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 554702.207, 4176893.076, 9.07, 2.00, 6.24
** 554846.014, 4176790.551, 10.61, 2.00, 6.24
** 554851.050, 4176783.311, 10.77, 2.00, 6.24
** ----------------------------------------------------------------
   LOCATION L0000724     VOLUME    554707.667 4176889.184 9.13
   LOCATION L0000725     VOLUME    554718.586 4176881.399 9.25
   LOCATION L0000726     VOLUME    554729.505 4176873.614 9.36
   LOCATION L0000727     VOLUME    554740.424 4176865.830 9.48
   LOCATION L0000728     VOLUME    554751.343 4176858.045 9.60
   LOCATION L0000729     VOLUME    554762.262 4176850.261 9.71
   LOCATION L0000730     VOLUME    554773.181 4176842.476 9.83
   LOCATION L0000731     VOLUME    554784.101 4176834.691 9.95
   LOCATION L0000732     VOLUME    554795.020 4176826.907 10.06
   LOCATION L0000733     VOLUME    554805.939 4176819.122 10.18
   LOCATION L0000734     VOLUME    554816.858 4176811.337 10.30
   LOCATION L0000735     VOLUME    554827.777 4176803.553 10.41
   LOCATION L0000736     VOLUME    554838.696 4176795.768 10.53
   LOCATION L0000737     VOLUME    554848.540 4176786.920 10.69
** End of LINE VOLUME Source ID = EVANS
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = JENN
** DESCRSRC
** PREFIX
** Length of Side = 12.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
```

```
** Nodes = 3
** 554703.459, 4176892.130, 9.07, 2.00, 5.95
** 554679.111, 4176839.151, 15.25, 2.00, 5.95
** 554678.308, 4176801.424, 18.60, 2.00, 5.95
** -------------------------------------------------------------------
   LOCATION L0000738      VOLUME      554700.786 4176886.315 9.75
   LOCATION L0000739      VOLUME      554695.441 4176874.684 11.11
   LOCATION L0000740      VOLUME      554690.096 4176863.054 12.46
   LOCATION L0000741      VOLUME      554684.751 4176851.423 13.82
   LOCATION L0000742      VOLUME      554679.406 4176839.793 15.18
   LOCATION L0000743      VOLUME      554678.854 4176827.060 16.32
   LOCATION L0000744      VOLUME      554678.581 4176814.263 17.46
   LOCATION L0000745      VOLUME      554678.309 4176801.466 18.60
** End of LINE VOLUME Source ID = JENN
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = MIDDLE
** DESCRSRC
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 554679.208, 4176800.861, 18.59, 2.00, 4.82
** 554682.380, 4176500.519, 32.23, 2.00, 4.82
** -------------------------------------------------------------------
   LOCATION L0000746      VOLUME      554679.263 4176795.681 18.83
   LOCATION L0000747      VOLUME      554679.372 4176785.322 19.30
   LOCATION L0000748      VOLUME      554679.482 4176774.962 19.77
   LOCATION L0000749      VOLUME      554679.591 4176764.603 20.24
   LOCATION L0000750      VOLUME      554679.700 4176754.244 20.71
   LOCATION L0000751      VOLUME      554679.810 4176743.884 21.18
   LOCATION L0000752      VOLUME      554679.919 4176733.525 21.65
   LOCATION L0000753      VOLUME      554680.029 4176723.165 22.12
   LOCATION L0000754      VOLUME      554680.138 4176712.806 22.59
   LOCATION L0000755      VOLUME      554680.247 4176702.446 23.06
   LOCATION L0000756      VOLUME      554680.357 4176692.087 23.53
   LOCATION L0000757      VOLUME      554680.466 4176681.728 24.00
   LOCATION L0000758      VOLUME      554680.576 4176671.368 24.47
   LOCATION L0000759      VOLUME      554680.685 4176661.009 24.94
   LOCATION L0000760      VOLUME      554680.794 4176650.649 25.41
   LOCATION L0000761      VOLUME      554680.904 4176640.290 25.88
   LOCATION L0000762      VOLUME      554681.013 4176629.931 26.35
   LOCATION L0000763      VOLUME      554681.123 4176619.571 26.82
   LOCATION L0000764      VOLUME      554681.232 4176609.212 27.29
   LOCATION L0000765      VOLUME      554681.341 4176598.852 27.76
   LOCATION L0000766      VOLUME      554681.451 4176588.493 28.23
   LOCATION L0000767      VOLUME      554681.560 4176578.133 28.71
   LOCATION L0000768      VOLUME      554681.670 4176567.774 29.18
   LOCATION L0000769      VOLUME      554681.779 4176557.415 29.65
   LOCATION L0000770      VOLUME      554681.889 4176547.055 30.12
   LOCATION L0000771      VOLUME      554681.998 4176536.696 30.59
   LOCATION L0000772      VOLUME      554682.107 4176526.336 31.06
   LOCATION L0000773      VOLUME      554682.217 4176515.977 31.53
   LOCATION L0000774      VOLUME      554682.326 4176505.617 32.00
```

```
** End of LINE VOLUME Source ID = MIDDLE
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = GRIFF
** DESCRSRC
** PREFIX
** Length of Side = 7.92
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555009.340, 4176269.854, 10.24, 2.00, 3.69
** 555025.636, 4176286.891, 7.06, 2.00, 3.69
** ------------------------------------------------------------------
   LOCATION L0000775    VOLUME   555012.077 4176272.716 9.71
   LOCATION L0000776    VOLUME   555017.552 4176278.439 8.64
   LOCATION L0000777    VOLUME   555023.026 4176284.162 7.57
** End of LINE VOLUME Source ID = GRIFF
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = NHUD
** DESCRSRC
** PREFIX
** Length of Side = 10.67
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 6
** 555024.896, 4176285.780, 7.09, 2.00, 4.96
** 555067.860, 4176291.706, 2.98, 2.00, 4.96
** 555184.531, 4176256.890, 7.45, 2.00, 4.96
** 555217.993, 4176210.317, 9.25, 2.00, 4.96
** 555269.871, 4176241.559, 8.83, 2.00, 4.96
** 555400.834, 4176116.886, 6.11, 2.00, 4.96
** ------------------------------------------------------------------
   LOCATION L0000778    VOLUME   555030.181 4176286.509 6.58
   LOCATION L0000779    VOLUME   555040.751 4176287.967 5.57
   LOCATION L0000780    VOLUME   555051.321 4176289.425 4.56
   LOCATION L0000781    VOLUME   555061.891 4176290.883 3.55
   LOCATION L0000782    VOLUME   555072.310 4176290.378 3.15
   LOCATION L0000783    VOLUME   555082.535 4176287.327 3.54
   LOCATION L0000784    VOLUME   555092.759 4176284.276 3.93
   LOCATION L0000785    VOLUME   555102.984 4176281.225 4.33
   LOCATION L0000786    VOLUME   555113.208 4176278.174 4.72
   LOCATION L0000787    VOLUME   555123.433 4176275.122 5.11
   LOCATION L0000788    VOLUME   555133.657 4176272.071 5.50
   LOCATION L0000789    VOLUME   555143.882 4176269.020 5.89
   LOCATION L0000790    VOLUME   555154.106 4176265.969 6.28
   LOCATION L0000791    VOLUME   555164.331 4176262.918 6.68
   LOCATION L0000792    VOLUME   555174.555 4176259.867 7.07
   LOCATION L0000793    VOLUME   555184.682 4176256.679 7.46
   LOCATION L0000794    VOLUME   555190.908 4176248.014 7.79
   LOCATION L0000795    VOLUME   555197.134 4176239.349 8.13
   LOCATION L0000796    VOLUME   555203.360 4176230.684 8.46
   LOCATION L0000797    VOLUME   555209.586 4176222.018 8.80
```

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   LOCATION L0000798      VOLUME     555215.812 4176213.353 9.13
   LOCATION L0000799      VOLUME     555223.931 4176213.893 9.20
   LOCATION L0000800      VOLUME     555233.071 4176219.398 9.13
   LOCATION L0000801      VOLUME     555242.212 4176224.902 9.05
   LOCATION L0000802      VOLUME     555251.352 4176230.407 8.98
   LOCATION L0000803      VOLUME     555260.493 4176235.911 8.91
   LOCATION L0000804      VOLUME     555269.633 4176241.416 8.83
   LOCATION L0000805      VOLUME     555277.398 4176234.393 8.67
   LOCATION L0000806      VOLUME     555285.126 4176227.036 8.51
   LOCATION L0000807      VOLUME     555292.855 4176219.679 8.35
   LOCATION L0000808      VOLUME     555300.583 4176212.322 8.19
   LOCATION L0000809      VOLUME     555308.311 4176204.965 8.03
   LOCATION L0000810      VOLUME     555316.039 4176197.608 7.87
   LOCATION L0000811      VOLUME     555323.767 4176190.252 7.71
   LOCATION L0000812      VOLUME     555331.495 4176182.895 7.55
   LOCATION L0000813      VOLUME     555339.223 4176175.538 7.39
   LOCATION L0000814      VOLUME     555346.951 4176168.181 7.23
   LOCATION L0000815      VOLUME     555354.680 4176160.824 7.07
   LOCATION L0000816      VOLUME     555362.408 4176153.467 6.91
   LOCATION L0000817      VOLUME     555370.136 4176146.110 6.75
   LOCATION L0000818      VOLUME     555377.864 4176138.753 6.59
   LOCATION L0000819      VOLUME     555385.592 4176131.396 6.43
   LOCATION L0000820      VOLUME     555393.320 4176124.039 6.27
** End of LINE VOLUME Source ID = NHUD
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ARELI
** DESCRSRC
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555176.012, 4176155.405, 12.75, 2.00, 5.67
** 555214.902, 4176215.037, 9.26, 2.00, 5.67
** ------------------------------------------------------------------
   LOCATION L0000821      VOLUME     555179.341 4176160.510 12.45
   LOCATION L0000822      VOLUME     555186.000 4176170.721 11.85
   LOCATION L0000823      VOLUME     555192.659 4176180.931 11.26
   LOCATION L0000824      VOLUME     555199.318 4176191.142 10.66
   LOCATION L0000825      VOLUME     555205.977 4176201.352 10.06
   LOCATION L0000826      VOLUME     555212.636 4176211.563 9.46
** End of LINE VOLUME Source ID = ARELI
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EARLN
** DESCRSRC
** PREFIX
** Length of Side = 8.53
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 555342.533, 4176040.516, 18.57, 2.00, 3.97
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** 555411.287, 4176117.714, 6.22, 2.00, 3.97
** 555543.971, 4176310.106, 1.95, 2.00, 3.97
** -------------------------------------------------------------------
   LOCATION L0000827     VOLUME    555345.370 4176043.701 18.06
   LOCATION L0000828     VOLUME    555351.043 4176050.071 17.04
   LOCATION L0000829     VOLUME    555356.716 4176056.441 16.02
   LOCATION L0000830     VOLUME    555362.389 4176062.811 15.00
   LOCATION L0000831     VOLUME    555368.062 4176069.181 13.98
   LOCATION L0000832     VOLUME    555373.735 4176075.551 12.97
   LOCATION L0000833     VOLUME    555379.409 4176081.921 11.95
   LOCATION L0000834     VOLUME    555385.082 4176088.290 10.93
   LOCATION L0000835     VOLUME    555390.755 4176094.660 9.91
   LOCATION L0000836     VOLUME    555396.428 4176101.030 8.89
   LOCATION L0000837     VOLUME    555402.101 4176107.400 7.87
   LOCATION L0000838     VOLUME    555407.775 4176113.770 6.85
   LOCATION L0000839     VOLUME    555413.131 4176120.388 6.16
   LOCATION L0000840     VOLUME    555417.974 4176127.410 6.00
   LOCATION L0000841     VOLUME    555422.817 4176134.432 5.85
   LOCATION L0000842     VOLUME    555427.660 4176141.454 5.69
   LOCATION L0000843     VOLUME    555432.502 4176148.476 5.54
   LOCATION L0000844     VOLUME    555437.345 4176155.498 5.38
   LOCATION L0000845     VOLUME    555442.188 4176162.520 5.23
   LOCATION L0000846     VOLUME    555447.031 4176169.542 5.07
   LOCATION L0000847     VOLUME    555451.874 4176176.564 4.91
   LOCATION L0000848     VOLUME    555456.716 4176183.587 4.76
   LOCATION L0000849     VOLUME    555461.559 4176190.609 4.60
   LOCATION L0000850     VOLUME    555466.402 4176197.631 4.45
   LOCATION L0000851     VOLUME    555471.245 4176204.653 4.29
   LOCATION L0000852     VOLUME    555476.087 4176211.675 4.13
   LOCATION L0000853     VOLUME    555480.930 4176218.697 3.98
   LOCATION L0000854     VOLUME    555485.773 4176225.719 3.82
   LOCATION L0000855     VOLUME    555490.616 4176232.741 3.67
   LOCATION L0000856     VOLUME    555495.458 4176239.763 3.51
   LOCATION L0000857     VOLUME    555500.301 4176246.785 3.36
   LOCATION L0000858     VOLUME    555505.144 4176253.807 3.20
   LOCATION L0000859     VOLUME    555509.987 4176260.829 3.04
   LOCATION L0000860     VOLUME    555514.829 4176267.851 2.89
   LOCATION L0000861     VOLUME    555519.672 4176274.873 2.73
   LOCATION L0000862     VOLUME    555524.515 4176281.895 2.58
   LOCATION L0000863     VOLUME    555529.358 4176288.917 2.42
   LOCATION L0000864     VOLUME    555534.200 4176295.939 2.26
   LOCATION L0000865     VOLUME    555539.043 4176302.961 2.11
   LOCATION L0000866     VOLUME    555543.886 4176309.983 1.95
** End of LINE VOLUME Source ID = EARLN
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = DONS
** DESCRSRC
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555402.422, 4175770.444, 32.36, 2.00, 5.67
** 555590.247, 4176037.573, 14.86, 2.00, 5.67
```

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** ----------------------------------------------------------------------
   LOCATION L0000867     VOLUME    555405.928 4175775.430 32.03
   LOCATION L0000868     VOLUME    555412.939 4175785.402 31.38
   LOCATION L0000869     VOLUME    555419.951 4175795.373 30.73
   LOCATION L0000870     VOLUME    555426.962 4175805.345 30.07
   LOCATION L0000871     VOLUME    555433.973 4175815.317 29.42
   LOCATION L0000872     VOLUME    555440.985 4175825.289 28.77
   LOCATION L0000873     VOLUME    555447.996 4175835.261 28.11
   LOCATION L0000874     VOLUME    555455.008 4175845.232 27.46
   LOCATION L0000875     VOLUME    555462.019 4175855.204 26.81
   LOCATION L0000876     VOLUME    555469.030 4175865.176 26.15
   LOCATION L0000877     VOLUME    555476.042 4175875.148 25.50
   LOCATION L0000878     VOLUME    555483.053 4175885.119 24.85
   LOCATION L0000879     VOLUME    555490.065 4175895.091 24.19
   LOCATION L0000880     VOLUME    555497.076 4175905.063 23.54
   LOCATION L0000881     VOLUME    555504.087 4175915.035 22.89
   LOCATION L0000882     VOLUME    555511.099 4175925.007 22.23
   LOCATION L0000883     VOLUME    555518.110 4175934.978 21.58
   LOCATION L0000884     VOLUME    555525.122 4175944.950 20.93
   LOCATION L0000885     VOLUME    555532.133 4175954.922 20.27
   LOCATION L0000886     VOLUME    555539.144 4175964.894 19.62
   LOCATION L0000887     VOLUME    555546.156 4175974.865 18.97
   LOCATION L0000888     VOLUME    555553.167 4175984.837 18.31
   LOCATION L0000889     VOLUME    555560.179 4175994.809 17.66
   LOCATION L0000890     VOLUME    555567.190 4176004.781 17.01
   LOCATION L0000891     VOLUME    555574.201 4176014.753 16.36
   LOCATION L0000892     VOLUME    555581.213 4176024.724 15.70
   LOCATION L0000893     VOLUME    555588.224 4176034.696 15.05
** End of LINE VOLUME Source ID = DONS
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = GALVEZ
** DESCRSRC
** PREFIX
** Length of Side = 24.38
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 555601.934, 4176034.234, 14.56, 2.00, 11.34
** 555624.473, 4176030.060, 14.20, 2.00, 11.34
** 555734.664, 4175955.765, 12.39, 2.00, 11.34
** ----------------------------------------------------------------------
   LOCATION L0000894     VOLUME    555613.920 4176032.014 14.37
   LOCATION L0000895     VOLUME    555635.789 4176022.430 14.01
   LOCATION L0000896     VOLUME    555656.003 4176008.801 13.68
   LOCATION L0000897     VOLUME    555676.218 4175995.172 13.35
   LOCATION L0000898     VOLUME    555696.432 4175981.542 13.02
   LOCATION L0000899     VOLUME    555716.647 4175967.913 12.69
** End of LINE VOLUME Source ID = GALVEZ
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = INNESS
** DESCRSRC
** PREFIX
** Length of Side = 12.19
```

```
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555510.943, 4175906.513, 19.57, 2.00, 5.67
** 555647.847, 4175810.513, 32.11, 2.00, 5.67
** ----------------------------------------------------------------------
   LOCATION L0000900     VOLUME     555515.933 4175903.014 20.03
   LOCATION L0000901     VOLUME     555525.914 4175896.015 20.94
   LOCATION L0000902     VOLUME     555535.895 4175889.016 21.86
   LOCATION L0000903     VOLUME     555545.875 4175882.018 22.77
   LOCATION L0000904     VOLUME     555555.856 4175875.019 23.68
   LOCATION L0000905     VOLUME     555565.837 4175868.020 24.60
   LOCATION L0000906     VOLUME     555575.818 4175861.022 25.51
   LOCATION L0000907     VOLUME     555585.798 4175854.023 26.43
   LOCATION L0000908     VOLUME     555595.779 4175847.024 27.34
   LOCATION L0000909     VOLUME     555605.760 4175840.025 28.25
   LOCATION L0000910     VOLUME     555615.740 4175833.027 29.17
   LOCATION L0000911     VOLUME     555625.721 4175826.028 30.08
   LOCATION L0000912     VOLUME     555635.702 4175819.029 31.00
   LOCATION L0000913     VOLUME     555645.683 4175812.031 31.91
** End of LINE VOLUME Source ID = INNESS
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = HUDSON
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555556.856, 4175974.965, 17.00, 2.00, 4.54
** 555696.264, 4175880.635, 24.77, 2.00, 4.54
** ----------------------------------------------------------------------
   LOCATION L0000914     VOLUME     555560.894 4175972.233 17.23
   LOCATION L0000915     VOLUME     555568.969 4175966.769 17.68
   LOCATION L0000916     VOLUME     555577.044 4175961.305 18.13
   LOCATION L0000917     VOLUME     555585.119 4175955.841 18.58
   LOCATION L0000918     VOLUME     555593.194 4175950.377 19.03
   LOCATION L0000919     VOLUME     555601.269 4175944.913 19.48
   LOCATION L0000920     VOLUME     555609.344 4175939.449 19.93
   LOCATION L0000921     VOLUME     555617.419 4175933.985 20.38
   LOCATION L0000922     VOLUME     555625.494 4175928.521 20.83
   LOCATION L0000923     VOLUME     555633.569 4175923.057 21.28
   LOCATION L0000924     VOLUME     555641.645 4175917.593 21.73
   LOCATION L0000925     VOLUME     555649.720 4175912.129 22.18
   LOCATION L0000926     VOLUME     555657.795 4175906.665 22.63
   LOCATION L0000927     VOLUME     555665.870 4175901.201 23.08
   LOCATION L0000928     VOLUME     555673.945 4175895.737 23.53
   LOCATION L0000929     VOLUME     555682.020 4175890.273 23.98
   LOCATION L0000930     VOLUME     555690.095 4175884.809 24.43
** End of LINE VOLUME Source ID = HUDSON
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

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** LINE VOLUME Source ID = KIRKS
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555411.604, 4175769.609, 32.06, 2.00, 4.54
** 555518.456, 4175696.148, 32.61, 2.00, 4.54
** -------------------------------------------------------------------
   LOCATION L0000931     VOLUME     555415.621 4175766.847 32.08
   LOCATION L0000932     VOLUME     555423.656 4175761.323 32.12
   LOCATION L0000933     VOLUME     555431.690 4175755.800 32.16
   LOCATION L0000934     VOLUME     555439.724 4175750.276 32.20
   LOCATION L0000935     VOLUME     555447.759 4175744.752 32.25
   LOCATION L0000936     VOLUME     555455.793 4175739.229 32.29
   LOCATION L0000937     VOLUME     555463.828 4175733.705 32.33
   LOCATION L0000938     VOLUME     555471.862 4175728.181 32.37
   LOCATION L0000939     VOLUME     555479.896 4175722.658 32.41
   LOCATION L0000940     VOLUME     555487.931 4175717.134 32.45
   LOCATION L0000941     VOLUME     555495.965 4175711.610 32.49
   LOCATION L0000942     VOLUME     555504.000 4175706.087 32.54
   LOCATION L0000943     VOLUME     555512.034 4175700.563 32.58
** End of LINE VOLUME Source ID = KIRKS
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = FRIED
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555442.491, 4175752.078, 30.40, 2.00, 4.54
** 555587.743, 4175953.260, 21.52, 2.00, 4.54
** -------------------------------------------------------------------
   LOCATION L0000944     VOLUME     555445.345 4175756.030 30.23
   LOCATION L0000945     VOLUME     555451.052 4175763.935 29.88
   LOCATION L0000946     VOLUME     555456.759 4175771.840 29.53
   LOCATION L0000947     VOLUME     555462.467 4175779.745 29.18
   LOCATION L0000948     VOLUME     555468.174 4175787.650 28.83
   LOCATION L0000949     VOLUME     555473.881 4175795.555 28.48
   LOCATION L0000950     VOLUME     555479.589 4175803.460 28.13
   LOCATION L0000951     VOLUME     555485.296 4175811.365 27.78
   LOCATION L0000952     VOLUME     555491.003 4175819.270 27.43
   LOCATION L0000953     VOLUME     555496.711 4175827.175 27.09
   LOCATION L0000954     VOLUME     555502.418 4175835.080 26.74
   LOCATION L0000955     VOLUME     555508.125 4175842.985 26.39
   LOCATION L0000956     VOLUME     555513.833 4175850.890 26.04
   LOCATION L0000957     VOLUME     555519.540 4175858.795 25.69
   LOCATION L0000958     VOLUME     555525.247 4175866.700 25.34
   LOCATION L0000959     VOLUME     555530.955 4175874.605 24.99
   LOCATION L0000960     VOLUME     555536.662 4175882.510 24.64
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   LOCATION L0000961      VOLUME     555542.369 4175890.415 24.29
   LOCATION L0000962      VOLUME     555548.077 4175898.320 23.94
   LOCATION L0000963      VOLUME     555553.784 4175906.225 23.60
   LOCATION L0000964      VOLUME     555559.492 4175914.130 23.25
   LOCATION L0000965      VOLUME     555565.199 4175922.035 22.90
   LOCATION L0000966      VOLUME     555570.906 4175929.940 22.55
   LOCATION L0000967      VOLUME     555576.614 4175937.845 22.20
   LOCATION L0000968      VOLUME     555582.321 4175945.750 21.85
** End of LINE VOLUME Source ID = FRIED
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = JERR
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555287.767, 4175961.265, 41.61, 2.00, 4.54
** 555450.550, 4175845.229, 30.22, 2.00, 4.54
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   LOCATION L0000969      VOLUME     555291.737 4175958.435 41.33
   LOCATION L0000970      VOLUME     555299.676 4175952.776 40.78
   LOCATION L0000971      VOLUME     555307.615 4175947.117 40.22
   LOCATION L0000972      VOLUME     555315.555 4175941.457 39.67
   LOCATION L0000973      VOLUME     555323.494 4175935.798 39.11
   LOCATION L0000974      VOLUME     555331.434 4175930.138 38.55
   LOCATION L0000975      VOLUME     555339.373 4175924.479 38.00
   LOCATION L0000976      VOLUME     555347.312 4175918.820 37.44
   LOCATION L0000977      VOLUME     555355.252 4175913.160 36.89
   LOCATION L0000978      VOLUME     555363.191 4175907.501 36.33
   LOCATION L0000979      VOLUME     555371.130 4175901.841 35.78
   LOCATION L0000980      VOLUME     555379.070 4175896.182 35.22
   LOCATION L0000981      VOLUME     555387.009 4175890.523 34.67
   LOCATION L0000982      VOLUME     555394.949 4175884.863 34.11
   LOCATION L0000983      VOLUME     555402.888 4175879.204 33.55
   LOCATION L0000984      VOLUME     555410.827 4175873.544 33.00
   LOCATION L0000985      VOLUME     555418.767 4175867.885 32.44
   LOCATION L0000986      VOLUME     555426.706 4175862.226 31.89
   LOCATION L0000987      VOLUME     555434.645 4175856.566 31.33
   LOCATION L0000988      VOLUME     555442.585 4175850.907 30.78
   LOCATION L0000989      VOLUME     555450.524 4175845.247 30.22
** End of LINE VOLUME Source ID = JERR
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = NORTH
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 8
** 554694.670, 4176228.420, 66.09, 2.00, 4.54
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** 554735.110, 4176222.643, 63.04, 2.00, 4.54
** 554757.063, 4176203.001, 60.06, 2.00, 4.54
** 554780.171, 4176197.224, 56.43, 2.00, 4.54
** 554837.942, 4176153.318, 48.66, 2.00, 4.54
** 554991.613, 4176148.696, 33.60, 2.00, 4.54
** 555144.128, 4176065.506, 36.75, 2.00, 4.54
** 555281.623, 4175964.985, 41.72, 2.00, 4.54
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   LOCATION L0000990     VOLUME     554699.496 4176227.731 65.73
   LOCATION L0000991     VOLUME     554709.148 4176226.352 65.00
   LOCATION L0000992     VOLUME     554718.800 4176224.973 64.27
   LOCATION L0000993     VOLUME     554728.452 4176223.594 63.54
   LOCATION L0000994     VOLUME     554737.364 4176220.626 62.73
   LOCATION L0000995     VOLUME     554744.630 4176214.125 61.75
   LOCATION L0000996     VOLUME     554751.896 4176207.624 60.76
   LOCATION L0000997     VOLUME     554759.796 4176202.318 59.63
   LOCATION L0000998     VOLUME     554769.255 4176199.953 58.14
   LOCATION L0000999     VOLUME     554778.714 4176197.588 56.66
   LOCATION L0001000     VOLUME     554786.738 4176192.233 55.55
   LOCATION L0001001     VOLUME     554794.500 4176186.334 54.50
   LOCATION L0001002     VOLUME     554802.263 4176180.434 53.46
   LOCATION L0001003     VOLUME     554810.025 4176174.535 52.41
   LOCATION L0001004     VOLUME     554817.788 4176168.635 51.37
   LOCATION L0001005     VOLUME     554825.550 4176162.736 50.33
   LOCATION L0001006     VOLUME     554833.313 4176156.836 49.28
   LOCATION L0001007     VOLUME     554841.876 4176153.200 48.27
   LOCATION L0001008     VOLUME     554851.622 4176152.907 47.32
   LOCATION L0001009     VOLUME     554861.367 4176152.613 46.36
   LOCATION L0001010     VOLUME     554871.113 4176152.320 45.41
   LOCATION L0001011     VOLUME     554880.859 4176152.027 44.45
   LOCATION L0001012     VOLUME     554890.604 4176151.734 43.50
   LOCATION L0001013     VOLUME     554900.350 4176151.441 42.54
   LOCATION L0001014     VOLUME     554910.095 4176151.148 41.59
   LOCATION L0001015     VOLUME     554919.841 4176150.855 40.63
   LOCATION L0001016     VOLUME     554929.586 4176150.562 39.68
   LOCATION L0001017     VOLUME     554939.332 4176150.268 38.72
   LOCATION L0001018     VOLUME     554949.078 4176149.975 37.77
   LOCATION L0001019     VOLUME     554958.823 4176149.682 36.81
   LOCATION L0001020     VOLUME     554968.569 4176149.389 35.86
   LOCATION L0001021     VOLUME     554978.314 4176149.096 34.90
   LOCATION L0001022     VOLUME     554988.060 4176148.803 33.95
   LOCATION L0001023     VOLUME     554997.052 4176145.729 33.71
   LOCATION L0001024     VOLUME     555005.611 4176141.060 33.89
   LOCATION L0001025     VOLUME     555014.171 4176136.392 34.07
   LOCATION L0001026     VOLUME     555022.730 4176131.723 34.24
   LOCATION L0001027     VOLUME     555031.290 4176127.054 34.42
   LOCATION L0001028     VOLUME     555039.849 4176122.385 34.60
   LOCATION L0001029     VOLUME     555048.409 4176117.716 34.77
   LOCATION L0001030     VOLUME     555056.968 4176113.048 34.95
   LOCATION L0001031     VOLUME     555065.528 4176108.379 35.13
   LOCATION L0001032     VOLUME     555074.087 4176103.710 35.30
   LOCATION L0001033     VOLUME     555082.647 4176099.041 35.48
   LOCATION L0001034     VOLUME     555091.206 4176094.372 35.66
   LOCATION L0001035     VOLUME     555099.766 4176089.704 35.83
   LOCATION L0001036     VOLUME     555108.325 4176085.035 36.01
   LOCATION L0001037     VOLUME     555116.885 4176080.366 36.19
   LOCATION L0001038     VOLUME     555125.444 4176075.697 36.36
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   LOCATION L0001039      VOLUME    555134.004 4176071.028 36.54
   LOCATION L0001040      VOLUME    555142.563 4176066.360 36.72
   LOCATION L0001041      VOLUME    555150.560 4176060.804 36.98
   LOCATION L0001042      VOLUME    555158.431 4176055.049 37.27
   LOCATION L0001043      VOLUME    555166.302 4176049.295 37.55
   LOCATION L0001044      VOLUME    555174.172 4176043.541 37.84
   LOCATION L0001045      VOLUME    555182.043 4176037.787 38.12
   LOCATION L0001046      VOLUME    555189.914 4176032.032 38.41
   LOCATION L0001047      VOLUME    555197.785 4176026.278 38.69
   LOCATION L0001048      VOLUME    555205.656 4176020.524 38.97
   LOCATION L0001049      VOLUME    555213.527 4176014.769 39.26
   LOCATION L0001050      VOLUME    555221.398 4176009.015 39.54
   LOCATION L0001051      VOLUME    555229.269 4176003.261 39.83
   LOCATION L0001052      VOLUME    555237.139 4175997.506 40.11
   LOCATION L0001053      VOLUME    555245.010 4175991.752 40.40
   LOCATION L0001054      VOLUME    555252.881 4175985.998 40.68
   LOCATION L0001055      VOLUME    555260.752 4175980.244 40.97
   LOCATION L0001056      VOLUME    555268.623 4175974.489 41.25
   LOCATION L0001057      VOLUME    555276.494 4175968.735 41.53
** End of LINE VOLUME Source ID = NORTH
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EARLS
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555286.540, 4175961.335, 41.69, 2.00, 4.54
** 555238.289, 4175894.990, 50.09, 2.00, 4.54
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   LOCATION L0001059      VOLUME    555277.938 4175949.507 43.19
   LOCATION L0001060      VOLUME    555272.203 4175941.622 44.19
   LOCATION L0001061      VOLUME    555266.469 4175933.737 45.18
   LOCATION L0001062      VOLUME    555260.734 4175925.852 46.18
   LOCATION L0001063      VOLUME    555254.999 4175917.967 47.18
   LOCATION L0001064      VOLUME    555249.265 4175910.081 48.18
   LOCATION L0001065      VOLUME    555243.530 4175902.196 49.18
** End of LINE VOLUME Source ID = EARLS
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = KIRKN
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 9
** 554675.912, 4176161.117, 70.08, 2.00, 4.54
** 554690.813, 4176153.312, 69.81, 2.00, 4.54
** 554751.837, 4176088.740, 67.23, 2.00, 4.54
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** 554789.445, 4176063.905, 64.12, 2.00, 4.54
** 554851.888, 4176043.327, 58.54, 2.00, 4.54
** 554893.043, 4176043.327, 57.02, 2.00, 4.54
** 554966.840, 4176058.228, 52.57, 2.00, 4.54
** 555012.253, 4176048.294, 51.68, 2.00, 4.54
** 555234.351, 4175895.025, 50.12, 2.00, 4.54
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   LOCATION L0001067     VOLUME     554688.867 4176154.331 69.85
   LOCATION L0001068     VOLUME     554696.001 4176147.822 69.59
   LOCATION L0001069     VOLUME     554702.698 4176140.736 69.31
   LOCATION L0001070     VOLUME     554709.395 4176133.650 69.02
   LOCATION L0001071     VOLUME     554716.092 4176126.563 68.74
   LOCATION L0001072     VOLUME     554722.789 4176119.477 68.46
   LOCATION L0001073     VOLUME     554729.486 4176112.391 68.17
   LOCATION L0001074     VOLUME     554736.182 4176105.305 67.89
   LOCATION L0001075     VOLUME     554742.879 4176098.219 67.61
   LOCATION L0001076     VOLUME     554749.576 4176091.132 67.33
   LOCATION L0001077     VOLUME     554757.226 4176085.181 66.78
   LOCATION L0001078     VOLUME     554765.362 4176079.808 66.11
   LOCATION L0001079     VOLUME     554773.499 4176074.435 65.44
   LOCATION L0001080     VOLUME     554781.635 4176069.063 64.77
   LOCATION L0001081     VOLUME     554789.816 4176063.783 64.09
   LOCATION L0001082     VOLUME     554799.076 4176060.731 63.26
   LOCATION L0001083     VOLUME     554808.336 4176057.680 62.43
   LOCATION L0001084     VOLUME     554817.596 4176054.628 61.60
   LOCATION L0001085     VOLUME     554826.856 4176051.576 60.78
   LOCATION L0001086     VOLUME     554836.116 4176048.525 59.95
   LOCATION L0001087     VOLUME     554845.376 4176045.473 59.12
   LOCATION L0001088     VOLUME     554854.782 4176043.327 58.43
   LOCATION L0001089     VOLUME     554864.532 4176043.327 58.07
   LOCATION L0001090     VOLUME     554874.282 4176043.327 57.71
   LOCATION L0001091     VOLUME     554884.032 4176043.327 57.35
   LOCATION L0001092     VOLUME     554893.767 4176043.473 56.98
   LOCATION L0001093     VOLUME     554903.324 4176045.403 56.40
   LOCATION L0001094     VOLUME     554912.882 4176047.333 55.82
   LOCATION L0001095     VOLUME     554922.439 4176049.263 55.25
   LOCATION L0001096     VOLUME     554931.996 4176051.192 54.67
   LOCATION L0001097     VOLUME     554941.553 4176053.122 54.09
   LOCATION L0001098     VOLUME     554951.110 4176055.052 53.52
   LOCATION L0001099     VOLUME     554960.667 4176056.982 52.94
   LOCATION L0001100     VOLUME     554970.213 4176057.490 52.50
   LOCATION L0001101     VOLUME     554979.738 4176055.407 52.32
   LOCATION L0001102     VOLUME     554989.262 4176053.323 52.13
   LOCATION L0001103     VOLUME     554998.787 4176051.240 51.94
   LOCATION L0001104     VOLUME     555008.312 4176049.156 51.76
   LOCATION L0001105     VOLUME     555016.957 4176045.048 51.65
   LOCATION L0001106     VOLUME     555024.982 4176039.510 51.59
   LOCATION L0001107     VOLUME     555033.007 4176033.972 51.53
   LOCATION L0001108     VOLUME     555041.031 4176028.434 51.48
   LOCATION L0001109     VOLUME     555049.056 4176022.896 51.42
   LOCATION L0001110     VOLUME     555057.081 4176017.359 51.37
   LOCATION L0001111     VOLUME     555065.105 4176011.821 51.31
   LOCATION L0001112     VOLUME     555073.130 4176006.283 51.25
   LOCATION L0001113     VOLUME     555081.155 4176000.745 51.20
   LOCATION L0001114     VOLUME     555089.179 4175995.207 51.14
   LOCATION L0001115     VOLUME     555097.204 4175989.670 51.08
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   LOCATION L0001116     VOLUME     555105.229 4175984.132 51.03
   LOCATION L0001117     VOLUME     555113.253 4175978.594 50.97
   LOCATION L0001118     VOLUME     555121.278 4175973.056 50.91
   LOCATION L0001119     VOLUME     555129.303 4175967.518 50.86
   LOCATION L0001120     VOLUME     555137.327 4175961.981 50.80
   LOCATION L0001121     VOLUME     555145.352 4175956.443 50.75
   LOCATION L0001122     VOLUME     555153.377 4175950.905 50.69
   LOCATION L0001123     VOLUME     555161.401 4175945.367 50.63
   LOCATION L0001124     VOLUME     555169.426 4175939.829 50.58
   LOCATION L0001125     VOLUME     555177.451 4175934.292 50.52
   LOCATION L0001126     VOLUME     555185.475 4175928.754 50.46
   LOCATION L0001127     VOLUME     555193.500 4175923.216 50.41
   LOCATION L0001128     VOLUME     555201.525 4175917.678 50.35
   LOCATION L0001129     VOLUME     555209.549 4175912.141 50.29
   LOCATION L0001130     VOLUME     555217.574 4175906.603 50.24
   LOCATION L0001131     VOLUME     555225.599 4175901.065 50.18
   LOCATION L0001132     VOLUME     555233.623 4175895.527 50.13
** End of LINE VOLUME Source ID = KIRKN
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = INGALLS
** DESCRSRC
** PREFIX
** Length of Side = 10.97
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 7
** 554671.654, 4176163.956, 70.05, 2.00, 5.10
** 554685.561, 4176197.232, 69.11, 2.00, 5.10
** 554691.523, 4176234.235, 65.57, 2.00, 5.10
** 554669.053, 4176313.322, 53.70, 2.00, 5.10
** 554643.824, 4176384.119, 42.72, 2.00, 5.10
** 554637.579, 4176439.343, 35.20, 2.00, 5.10
** 554682.511, 4176495.884, 31.77, 2.00, 5.10
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   LOCATION L0001133     VOLUME     554673.769 4176169.017 69.91
   LOCATION L0001134     VOLUME     554677.999 4176179.138 69.62
   LOCATION L0001135     VOLUME     554682.229 4176189.260 69.34
   LOCATION L0001136     VOLUME     554685.932 4176199.532 68.89
   LOCATION L0001137     VOLUME     554687.677 4176210.362 67.85
   LOCATION L0001138     VOLUME     554689.422 4176221.193 66.82
   LOCATION L0001139     VOLUME     554691.167 4176232.023 65.78
   LOCATION L0001140     VOLUME     554689.137 4176242.632 64.31
   LOCATION L0001141     VOLUME     554686.139 4176253.185 62.73
   LOCATION L0001142     VOLUME     554683.141 4176263.737 61.14
   LOCATION L0001143     VOLUME     554680.143 4176274.289 59.56
   LOCATION L0001144     VOLUME     554677.145 4176284.842 57.97
   LOCATION L0001145     VOLUME     554674.147 4176295.394 56.39
   LOCATION L0001146     VOLUME     554671.149 4176305.946 54.81
   LOCATION L0001147     VOLUME     554667.944 4176316.433 53.22
   LOCATION L0001148     VOLUME     554664.262 4176326.766 51.61
   LOCATION L0001149     VOLUME     554660.580 4176337.100 50.01
   LOCATION L0001150     VOLUME     554656.897 4176347.433 48.41
   LOCATION L0001151     VOLUME     554653.215 4176357.767 46.81
   LOCATION L0001152     VOLUME     554649.532 4176368.100 45.20
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    LOCATION L0001153      VOLUME     554645.850 4176378.434 43.60
    LOCATION L0001154      VOLUME     554643.270 4176389.022 42.05
    LOCATION L0001155      VOLUME     554642.037 4176399.923 40.57
    LOCATION L0001156      VOLUME     554640.804 4176410.823 39.08
    LOCATION L0001157      VOLUME     554639.571 4176421.724 37.60
    LOCATION L0001158      VOLUME     554638.339 4176432.624 36.11
    LOCATION L0001159      VOLUME     554640.197 4176442.638 35.00
    LOCATION L0001160      VOLUME     554647.022 4176451.226 34.48
    LOCATION L0001161      VOLUME     554653.847 4176459.815 33.96
    LOCATION L0001162      VOLUME     554660.672 4176468.403 33.44
    LOCATION L0001163      VOLUME     554667.497 4176476.991 32.92
    LOCATION L0001164      VOLUME     554674.322 4176485.580 32.40
    LOCATION L0001165      VOLUME     554681.147 4176494.168 31.87
** End of LINE VOLUME Source ID = INGALLS
** ----------------------------------------------------------------

** Source Parameters **
    SRCPARAM EMGEN1             1.0    25.384    739.817   45.30000      0.183
    SRCPARAM EMGEN2             1.0    19.593    739.817   45.30000      0.183
    SRCPARAM EMGEN3             1.0     5.572    739.817   45.30000      0.183
    SRCPARAM EMGEN4             1.0    24.774    739.817   45.30000      0.183
    SRCPARAM EMGEN5             1.0    25.384    739.817   45.30000      0.183
    SRCPARAM EMGEN6             1.0    19.593    739.817   45.30000      0.183
    SRCPARAM EMGEN7             1.0     5.572    739.817   45.30000      0.183
    SRCPARAM EMGEN8             1.0    24.774    739.817   45.30000      0.183

** LINE VOLUME Source ID = INNESN
    SRCPARAM L0000001      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000002      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000003      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000004      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000005      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000006      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000007      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000008      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000009      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000010      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000011      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000012      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000013      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000014      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000015      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000016      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000017      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000018      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000019      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000020      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000021      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000022      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000023      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000024      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000025      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000026      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000027      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000028      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000029      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000030      0.0135135135      2.00      6.24      2.30
```

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   SRCPARAM L0000031    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000032    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000033    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000034    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000035    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000036    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000037    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000038    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000039    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000040    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000041    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000042    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000043    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000044    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000045    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000046    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000047    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000048    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000049    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000050    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000051    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000052    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000053    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000054    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000055    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000056    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000057    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000058    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000059    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000060    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000061    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000062    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000063    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000064    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000065    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000066    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000067    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000068    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000069    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000070    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000071    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000072    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000073    0.0135135135    2.00    6.24    2.30
   SRCPARAM L0000074    0.0135135135    2.00    6.24    2.30
** ---------------------------------------------------------------
** LINE VOLUME Source ID = HAWES
   SRCPARAM L0000688         0.25    2.00    8.51    2.30
   SRCPARAM L0000689         0.25    2.00    8.51    2.30
   SRCPARAM L0000690         0.25    2.00    8.51    2.30
   SRCPARAM L0000691         0.25    2.00    8.51    2.30
** ---------------------------------------------------------------
** LINE VOLUME Source ID = HUNT
   SRCPARAM L0000692      0.03125    2.00    6.24    2.30
   SRCPARAM L0000693      0.03125    2.00    6.24    2.30
   SRCPARAM L0000694      0.03125    2.00    6.24    2.30
   SRCPARAM L0000695      0.03125    2.00    6.24    2.30
   SRCPARAM L0000696      0.03125    2.00    6.24    2.30
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    SRCPARAM L0000697        0.03125      2.00      6.24      2.30
    SRCPARAM L0000698        0.03125      2.00      6.24      2.30
    SRCPARAM L0000699        0.03125      2.00      6.24      2.30
    SRCPARAM L0000700        0.03125      2.00      6.24      2.30
    SRCPARAM L0000701        0.03125      2.00      6.24      2.30
    SRCPARAM L0000702        0.03125      2.00      6.24      2.30
    SRCPARAM L0000703        0.03125      2.00      6.24      2.30
    SRCPARAM L0000704        0.03125      2.00      6.24      2.30
    SRCPARAM L0000705        0.03125      2.00      6.24      2.30
    SRCPARAM L0000706        0.03125      2.00      6.24      2.30
    SRCPARAM L0000707        0.03125      2.00      6.24      2.30
    SRCPARAM L0000708        0.03125      2.00      6.24      2.30
    SRCPARAM L0000709        0.03125      2.00      6.24      2.30
    SRCPARAM L0000710        0.03125      2.00      6.24      2.30
    SRCPARAM L0000711        0.03125      2.00      6.24      2.30
    SRCPARAM L0000712        0.03125      2.00      6.24      2.30
    SRCPARAM L0000713        0.03125      2.00      6.24      2.30
    SRCPARAM L0000714        0.03125      2.00      6.24      2.30
    SRCPARAM L0000715        0.03125      2.00      6.24      2.30
    SRCPARAM L0000716        0.03125      2.00      6.24      2.30
    SRCPARAM L0000717        0.03125      2.00      6.24      2.30
    SRCPARAM L0000718        0.03125      2.00      6.24      2.30
    SRCPARAM L0000719        0.03125      2.00      6.24      2.30
    SRCPARAM L0000720        0.03125      2.00      6.24      2.30
    SRCPARAM L0000721        0.03125      2.00      6.24      2.30
    SRCPARAM L0000722        0.03125      2.00      6.24      2.30
    SRCPARAM L0000723        0.03125      2.00      6.24      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = EVANS
    SRCPARAM L0000724     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000725     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000726     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000727     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000728     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000729     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000730     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000731     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000732     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000733     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000734     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000735     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000736     0.0714285714    2.00      6.24      2.30
    SRCPARAM L0000737     0.0714285714    2.00      6.24      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = JENN
    SRCPARAM L0000738        0.125        2.00      5.95      2.30
    SRCPARAM L0000739        0.125        2.00      5.95      2.30
    SRCPARAM L0000740        0.125        2.00      5.95      2.30
    SRCPARAM L0000741        0.125        2.00      5.95      2.30
    SRCPARAM L0000742        0.125        2.00      5.95      2.30
    SRCPARAM L0000743        0.125        2.00      5.95      2.30
    SRCPARAM L0000744        0.125        2.00      5.95      2.30
    SRCPARAM L0000745        0.125        2.00      5.95      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = MIDDLE
    SRCPARAM L0000746     0.0344827586    2.00      4.82      2.30
    SRCPARAM L0000747     0.0344827586    2.00      4.82      2.30
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    SRCPARAM L0000748    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000749    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000750    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000751    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000752    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000753    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000754    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000755    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000756    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000757    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000758    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000759    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000760    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000761    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000762    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000763    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000764    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000765    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000766    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000767    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000768    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000769    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000770    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000771    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000772    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000773    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000774    0.0344827586    2.00    4.82    2.30
**  --------------------------------------------------------------
**  LINE VOLUME Source ID = GRIFF
    SRCPARAM L0000775    0.3333333333    2.00    3.69    2.30
    SRCPARAM L0000776    0.3333333333    2.00    3.69    2.30
    SRCPARAM L0000777    0.3333333333    2.00    3.69    2.30
**  --------------------------------------------------------------
**  LINE VOLUME Source ID = NHUD
    SRCPARAM L0000778    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000779    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000780    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000781    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000782    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000783    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000784    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000785    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000786    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000787    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000788    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000789    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000790    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000791    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000792    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000793    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000794    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000795    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000796    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000797    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000798    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000799    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000800    0.023255814     2.00    4.96    2.30
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    SRCPARAM L0000801      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000802      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000803      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000804      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000805      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000806      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000807      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000808      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000809      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000810      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000811      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000812      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000813      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000814      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000815      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000816      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000817      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000818      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000819      0.023255814      2.00      4.96      2.30
    SRCPARAM L0000820      0.023255814      2.00      4.96      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = ARELI
    SRCPARAM L0000821      0.1666666667     2.00      5.67      2.30
    SRCPARAM L0000822      0.1666666667     2.00      5.67      2.30
    SRCPARAM L0000823      0.1666666667     2.00      5.67      2.30
    SRCPARAM L0000824      0.1666666667     2.00      5.67      2.30
    SRCPARAM L0000825      0.1666666667     2.00      5.67      2.30
    SRCPARAM L0000826      0.1666666667     2.00      5.67      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = EARLN
    SRCPARAM L0000827      0.025            2.00      3.97      2.30
    SRCPARAM L0000828      0.025            2.00      3.97      2.30
    SRCPARAM L0000829      0.025            2.00      3.97      2.30
    SRCPARAM L0000830      0.025            2.00      3.97      2.30
    SRCPARAM L0000831      0.025            2.00      3.97      2.30
    SRCPARAM L0000832      0.025            2.00      3.97      2.30
    SRCPARAM L0000833      0.025            2.00      3.97      2.30
    SRCPARAM L0000834      0.025            2.00      3.97      2.30
    SRCPARAM L0000835      0.025            2.00      3.97      2.30
    SRCPARAM L0000836      0.025            2.00      3.97      2.30
    SRCPARAM L0000837      0.025            2.00      3.97      2.30
    SRCPARAM L0000838      0.025            2.00      3.97      2.30
    SRCPARAM L0000839      0.025            2.00      3.97      2.30
    SRCPARAM L0000840      0.025            2.00      3.97      2.30
    SRCPARAM L0000841      0.025            2.00      3.97      2.30
    SRCPARAM L0000842      0.025            2.00      3.97      2.30
    SRCPARAM L0000843      0.025            2.00      3.97      2.30
    SRCPARAM L0000844      0.025            2.00      3.97      2.30
    SRCPARAM L0000845      0.025            2.00      3.97      2.30
    SRCPARAM L0000846      0.025            2.00      3.97      2.30
    SRCPARAM L0000847      0.025            2.00      3.97      2.30
    SRCPARAM L0000848      0.025            2.00      3.97      2.30
    SRCPARAM L0000849      0.025            2.00      3.97      2.30
    SRCPARAM L0000850      0.025            2.00      3.97      2.30
    SRCPARAM L0000851      0.025            2.00      3.97      2.30
    SRCPARAM L0000852      0.025            2.00      3.97      2.30
    SRCPARAM L0000853      0.025            2.00      3.97      2.30
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   SRCPARAM L0000854         0.025          2.00     3.97      2.30
   SRCPARAM L0000855         0.025          2.00     3.97      2.30
   SRCPARAM L0000856         0.025          2.00     3.97      2.30
   SRCPARAM L0000857         0.025          2.00     3.97      2.30
   SRCPARAM L0000858         0.025          2.00     3.97      2.30
   SRCPARAM L0000859         0.025          2.00     3.97      2.30
   SRCPARAM L0000860         0.025          2.00     3.97      2.30
   SRCPARAM L0000861         0.025          2.00     3.97      2.30
   SRCPARAM L0000862         0.025          2.00     3.97      2.30
   SRCPARAM L0000863         0.025          2.00     3.97      2.30
   SRCPARAM L0000864         0.025          2.00     3.97      2.30
   SRCPARAM L0000865         0.025          2.00     3.97      2.30
   SRCPARAM L0000866         0.025          2.00     3.97      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = DONS
   SRCPARAM L0000867    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000868    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000869    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000870    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000871    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000872    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000873    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000874    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000875    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000876    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000877    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000878    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000879    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000880    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000881    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000882    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000883    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000884    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000885    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000886    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000887    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000888    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000889    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000890    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000891    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000892    0.037037037         2.00     5.67      2.30
   SRCPARAM L0000893    0.037037037         2.00     5.67      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = GALVEZ
   SRCPARAM L0000894    0.1666666667        2.00    11.34      2.30
   SRCPARAM L0000895    0.1666666667        2.00    11.34      2.30
   SRCPARAM L0000896    0.1666666667        2.00    11.34      2.30
   SRCPARAM L0000897    0.1666666667        2.00    11.34      2.30
   SRCPARAM L0000898    0.1666666667        2.00    11.34      2.30
   SRCPARAM L0000899    0.1666666667        2.00    11.34      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = INNESS
   SRCPARAM L0000900    0.0714285714        2.00     5.67      2.30
   SRCPARAM L0000901    0.0714285714        2.00     5.67      2.30
   SRCPARAM L0000902    0.0714285714        2.00     5.67      2.30
   SRCPARAM L0000903    0.0714285714        2.00     5.67      2.30
   SRCPARAM L0000904    0.0714285714        2.00     5.67      2.30
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    SRCPARAM L0000905      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000906      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000907      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000908      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000909      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000910      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000911      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000912      0.0714285714    2.00    5.67    2.30
    SRCPARAM L0000913      0.0714285714    2.00    5.67    2.30
**  ------------------------------------------------------------
**  LINE VOLUME Source ID = HUDSON
    SRCPARAM L0000914      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000915      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000916      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000917      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000918      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000919      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000920      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000921      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000922      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000923      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000924      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000925      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000926      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000927      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000928      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000929      0.0588235294    2.00    4.54    2.30
    SRCPARAM L0000930      0.0588235294    2.00    4.54    2.30
**  ------------------------------------------------------------
**  LINE VOLUME Source ID = KIRKS
    SRCPARAM L0000931      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000932      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000933      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000934      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000935      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000936      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000937      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000938      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000939      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000940      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000941      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000942      0.0769230769    2.00    4.54    2.30
    SRCPARAM L0000943      0.0769230769    2.00    4.54    2.30
**  ------------------------------------------------------------
**  LINE VOLUME Source ID = FRIED
    SRCPARAM L0000944          0.04        2.00    4.54    2.30
    SRCPARAM L0000945          0.04        2.00    4.54    2.30
    SRCPARAM L0000946          0.04        2.00    4.54    2.30
    SRCPARAM L0000947          0.04        2.00    4.54    2.30
    SRCPARAM L0000948          0.04        2.00    4.54    2.30
    SRCPARAM L0000949          0.04        2.00    4.54    2.30
    SRCPARAM L0000950          0.04        2.00    4.54    2.30
    SRCPARAM L0000951          0.04        2.00    4.54    2.30
    SRCPARAM L0000952          0.04        2.00    4.54    2.30
    SRCPARAM L0000953          0.04        2.00    4.54    2.30
    SRCPARAM L0000954          0.04        2.00    4.54    2.30
    SRCPARAM L0000955          0.04        2.00    4.54    2.30
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    SRCPARAM L0000956          0.04       2.00     4.54     2.30
    SRCPARAM L0000957          0.04       2.00     4.54     2.30
    SRCPARAM L0000958          0.04       2.00     4.54     2.30
    SRCPARAM L0000959          0.04       2.00     4.54     2.30
    SRCPARAM L0000960          0.04       2.00     4.54     2.30
    SRCPARAM L0000961          0.04       2.00     4.54     2.30
    SRCPARAM L0000962          0.04       2.00     4.54     2.30
    SRCPARAM L0000963          0.04       2.00     4.54     2.30
    SRCPARAM L0000964          0.04       2.00     4.54     2.30
    SRCPARAM L0000965          0.04       2.00     4.54     2.30
    SRCPARAM L0000966          0.04       2.00     4.54     2.30
    SRCPARAM L0000967          0.04       2.00     4.54     2.30
    SRCPARAM L0000968          0.04       2.00     4.54     2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = JERR
    SRCPARAM L0000969   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000970   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000971   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000972   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000973   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000974   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000975   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000976   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000977   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000978   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000979   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000980   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000981   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000982   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000983   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000984   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000985   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000986   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000987   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000988   0.0476190476       2.00     4.54     2.30
    SRCPARAM L0000989   0.0476190476       2.00     4.54     2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = NORTH
    SRCPARAM L0000990   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000991   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000992   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000993   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000994   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000995   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000996   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000997   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000998   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0000999   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001000   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001001   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001002   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001003   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001004   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001005   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001006   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001007   0.0147058824       2.00     4.54     2.30
    SRCPARAM L0001008   0.0147058824       2.00     4.54     2.30
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    SRCPARAM L0001009      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001010      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001011      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001012      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001013      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001014      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001015      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001016      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001017      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001018      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001019      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001020      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001021      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001022      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001023      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001024      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001025      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001026      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001027      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001028      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001029      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001030      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001031      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001032      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001033      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001034      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001035      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001036      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001037      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001038      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001039      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001040      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001041      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001042      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001043      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001044      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001045      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001046      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001047      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001048      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001049      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001050      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001051      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001052      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001053      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001054      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001055      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001056      0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001057      0.0147058824      2.00      4.54      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = EARLS
    SRCPARAM L0001058         0.125          2.00      4.54      2.30
    SRCPARAM L0001059         0.125          2.00      4.54      2.30
    SRCPARAM L0001060         0.125          2.00      4.54      2.30
    SRCPARAM L0001061         0.125          2.00      4.54      2.30
    SRCPARAM L0001062         0.125          2.00      4.54      2.30
    SRCPARAM L0001063         0.125          2.00      4.54      2.30
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    SRCPARAM L0001064          0.125      2.00      4.54      2.30
    SRCPARAM L0001065          0.125      2.00      4.54      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = KIRKN
    SRCPARAM L0001066    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001067    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001068    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001069    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001070    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001071    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001072    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001073    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001074    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001075    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001076    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001077    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001078    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001079    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001080    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001081    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001082    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001083    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001084    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001085    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001086    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001087    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001088    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001089    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001090    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001091    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001092    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001093    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001094    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001095    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001096    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001097    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001098    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001099    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001100    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001101    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001102    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001103    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001104    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001105    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001106    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001107    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001108    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001109    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001110    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001111    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001112    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001113    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001114    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001115    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001116    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001117    0.0149253731     2.00      4.54      2.30
    SRCPARAM L0001118    0.0149253731     2.00      4.54      2.30
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   SRCPARAM L0001119    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001120    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001121    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001122    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001123    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001124    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001125    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001126    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001127    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001128    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001129    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001130    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001131    0.0149253731     2.00     4.54     2.30
   SRCPARAM L0001132    0.0149253731     2.00     4.54     2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = INGALLS
   SRCPARAM L0001133    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001134    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001135    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001136    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001137    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001138    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001139    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001140    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001141    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001142    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001143    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001144    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001145    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001146    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001147    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001148    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001149    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001150    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001151    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001152    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001153    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001154    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001155    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001156    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001157    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001158    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001159    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001160    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001161    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001162    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001163    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001164    0.0303030303     2.00     5.10     2.30
   SRCPARAM L0001165    0.0303030303     2.00     5.10     2.30
** ----------------------------------------------------------------
** Building Downwash **
   BUILDHGT EMGEN1          24.38    24.38    24.38    24.38    24.38    24.38
   BUILDHGT EMGEN1          24.38    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN1          42.67    45.72    45.72    45.72    45.72    45.72
   BUILDHGT EMGEN1          24.38    24.38    24.38    24.38    24.38    24.38
   BUILDHGT EMGEN1          24.38    42.67    42.67    42.67    42.67    42.67
   BUILDHGT EMGEN1          46.63    46.63    46.63    44.20    45.72    45.72
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BUILDHGT EMGEN2          44.20   44.20   44.20   44.20   44.20   44.20
BUILDHGT EMGEN2          18.29   42.67   42.67   42.67   42.67   42.67
BUILDHGT EMGEN2          42.67   22.86   22.86   20.73   42.67   42.67
BUILDHGT EMGEN2          44.20   44.20   44.20   44.20   44.20   44.20
BUILDHGT EMGEN2          20.73   42.67   42.67   42.67   42.67   42.67
BUILDHGT EMGEN2          42.67   18.29   22.86   22.86   42.67   42.67

BUILDHGT EMGEN3          44.20   44.20   44.20    4.57   42.67   42.67
BUILDHGT EMGEN3          42.67   42.67   42.67   42.67   22.86   22.86
BUILDHGT EMGEN3          22.86   22.86   18.29   18.29   18.29   42.67
BUILDHGT EMGEN3          18.59   18.59    4.57    4.57   42.67   42.67
BUILDHGT EMGEN3          42.67   42.67   42.67   42.67   20.73   22.86
BUILDHGT EMGEN3          22.86   22.86   21.64   18.29   20.73   42.67

BUILDHGT EMGEN4          24.69   24.69   23.77   22.86   23.77   23.77
BUILDHGT EMGEN4          44.20   44.20   23.77   23.77   23.77   23.77
BUILDHGT EMGEN4          23.77   23.77   23.77   24.69   24.69   24.69
BUILDHGT EMGEN4          24.69   24.69   23.77   22.86   23.77   23.77
BUILDHGT EMGEN4          23.77   23.77   23.77   23.77   23.77   23.77
BUILDHGT EMGEN4          23.77   23.77   23.77   24.69   24.69   24.69

BUILDHGT EMGEN5          24.38   24.38   24.38   24.38   24.38   24.38
BUILDHGT EMGEN5          24.38   42.67   42.67   42.67   42.67   42.67
BUILDHGT EMGEN5          42.67   45.72   45.72   45.72   45.72   45.72
BUILDHGT EMGEN5          24.38   24.38   24.38   24.38   24.38   24.38
BUILDHGT EMGEN5          24.38   42.67   42.67   42.67   42.67   42.67
BUILDHGT EMGEN5          46.63   46.63   46.63   44.20   45.72   45.72

BUILDHGT EMGEN6          44.20   44.20   44.20   44.20   44.20   44.20
BUILDHGT EMGEN6          18.29   42.67   42.67   42.67   42.67   42.67
BUILDHGT EMGEN6          42.67   22.86   22.86   20.73   20.73   42.67
BUILDHGT EMGEN6          44.20   44.20   44.20   44.20   44.20   44.20
BUILDHGT EMGEN6          20.73   42.67   42.67   42.67   42.67   42.67
BUILDHGT EMGEN6          42.67   18.29   22.86   22.86   22.86   42.67

BUILDHGT EMGEN7          44.20   44.20   44.20    4.57   42.67   42.67
BUILDHGT EMGEN7          42.67   42.67   42.67   42.67   22.86   22.86
BUILDHGT EMGEN7          22.86   22.86   18.29   18.29   18.29   42.67
BUILDHGT EMGEN7          18.59   18.59   13.72    4.57   42.67   42.67
BUILDHGT EMGEN7          42.67   42.67   42.67   42.67   20.73   22.86
BUILDHGT EMGEN7          22.86   22.86   21.64   18.29   20.73   42.67

BUILDHGT EMGEN8          24.69   24.69   23.77   22.86   23.77   23.77
BUILDHGT EMGEN8          44.20   44.20   23.77   23.77   23.77   23.77
BUILDHGT EMGEN8          23.77   23.77   23.77   24.69   24.69   24.69
BUILDHGT EMGEN8          24.69   24.69   23.77   22.86   23.77   23.77
BUILDHGT EMGEN8          23.77   23.77   23.77   23.77   23.77   23.77
BUILDHGT EMGEN8          23.77   23.77   23.77   24.69   24.69   24.69

BUILDWID EMGEN1          68.01   66.09   62.17   60.89   63.87   64.92
BUILDWID EMGEN1          63.99   46.19   46.99   46.37   44.33   42.69
BUILDWID EMGEN1          41.41   40.99   41.90   41.54   39.92   37.08
BUILDWID EMGEN1          68.01   66.09   62.17   60.89   63.87   64.92
BUILDWID EMGEN1          63.99   46.19   46.99   46.37   44.33   42.69
BUILDWID EMGEN1          39.59   41.42   42.00   43.61   39.92   37.08
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BUILDWID EMGEN2      39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN2     107.12    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN2      41.41   103.36    99.97    68.37    42.68    42.68
BUILDWID EMGEN2      39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN2      25.95    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN2      41.41    76.66    34.50    34.23    42.68    42.68

BUILDWID EMGEN3      39.19    35.06    29.87     7.68    35.66    40.43
BUILDWID EMGEN3      43.98    46.19    46.99    46.37   109.21   105.17
BUILDWID EMGEN3     103.61   103.36    98.35    98.70    96.05    42.72
BUILDWID EMGEN3      30.02    28.94     8.18     7.68    35.66    40.43
BUILDWID EMGEN3      43.98    46.19    46.99    46.37    27.85   105.17
BUILDWID EMGEN3     103.61   103.36    23.58   103.89    73.76    42.72

BUILDWID EMGEN4      28.57    24.48    22.97    57.52    23.24    27.03
BUILDWID EMGEN4      40.38    41.57    33.13    33.20    32.27    30.36
BUILDWID EMGEN4      30.87    31.96    32.07    35.27    34.05    31.79
BUILDWID EMGEN4      28.57    24.48    22.97    57.52    23.24    27.03
BUILDWID EMGEN4      29.99    32.05    33.13    33.20    32.27    30.36
BUILDWID EMGEN4      30.87    31.96    32.07    35.27    34.05    31.79

BUILDWID EMGEN5      68.01    66.09    62.17    60.89    63.87    64.92
BUILDWID EMGEN5      63.99    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN5      41.41    40.99    41.90    41.54    39.92    37.08
BUILDWID EMGEN5      68.01    66.09    62.17    60.89    63.87    64.92
BUILDWID EMGEN5      63.99    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN5      39.59    41.42    42.00    43.55    39.92    37.08

BUILDWID EMGEN6      39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN6     107.12    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN6      41.41   103.36    99.97    68.37    73.76    42.74
BUILDWID EMGEN6      39.19    35.06    29.87    29.79    34.41    37.97
BUILDWID EMGEN6      21.17    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN6      41.41    76.66    34.50    34.23    32.92    42.74

BUILDWID EMGEN7      39.19    35.06    29.87     7.68    35.66    40.43
BUILDWID EMGEN7      43.98    46.19    46.99    46.37   109.21   105.17
BUILDWID EMGEN7     103.61   103.36    98.35    98.70    96.05    42.72
BUILDWID EMGEN7      30.02    28.94    45.61     7.68    35.66    40.43
BUILDWID EMGEN7      43.98    46.19    46.99    46.37    27.85   105.17
BUILDWID EMGEN7     103.61   103.36    23.58   103.89    73.76    42.72

BUILDWID EMGEN8      28.57    24.48    22.97    57.52    23.24    27.03
BUILDWID EMGEN8      40.38    41.57    33.13    33.20    32.27    30.36
BUILDWID EMGEN8      30.87    31.96    32.07    35.27    34.05    31.79
BUILDWID EMGEN8      28.57    24.48    22.97    57.52    23.24    27.03
BUILDWID EMGEN8      29.99    32.05    33.13    33.20    32.27    30.36
BUILDWID EMGEN8      30.87    31.96    32.07    35.27    34.05    31.79

BUILDLEN EMGEN1      49.94    44.33    42.69    47.08    54.50    60.26
BUILDLEN EMGEN1      64.18    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN1      29.81    26.57    31.07    34.63    37.14    38.52
BUILDLEN EMGEN1      49.94    44.33    42.69    47.08    54.50    60.26
BUILDLEN EMGEN1      64.18    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN1      20.36    24.63    28.15    40.38    37.14    38.52

BUILDLEN EMGEN2      40.15    37.84    37.35    39.59    41.42    43.11
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BUILDLEN EMGEN2         98.70    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN2         29.81    70.66    81.29    75.56    41.57    41.49
BUILDLEN EMGEN2         40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN2         32.07    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN2         29.81    51.26    27.03    30.17    41.57    41.49

BUILDLEN EMGEN3         40.15    37.84    37.35     7.76    40.99    41.90
BUILDLEN EMGEN3         41.54    39.92    38.80    37.03    66.09    62.17
BUILDLEN EMGEN3         60.89    70.66   103.60   107.12   107.39    41.49
BUILDLEN EMGEN3         29.41    30.15     8.22     7.76    40.99    41.90
BUILDLEN EMGEN3         41.54    39.92    38.80    37.03    20.12    62.17
BUILDLEN EMGEN3         60.89    70.66    26.12    71.03    71.93    41.49

BUILDLEN EMGEN4         37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN4         44.12    43.79    26.70    23.19    20.69    19.68
BUILDLEN EMGEN4         18.74    23.24    27.03    33.90    36.04    37.09
BUILDLEN EMGEN4         37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN4         31.21    29.40    26.70    23.19    20.69    19.68
BUILDLEN EMGEN4         18.74    23.24    27.03    33.90    36.04    37.09

BUILDLEN EMGEN5         49.94    44.33    42.69    47.08    54.50    60.26
BUILDLEN EMGEN5         64.18    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN5         29.81    26.57    31.07    34.63    37.14    38.52
BUILDLEN EMGEN5         49.94    44.33    42.69    47.08    54.50    60.26
BUILDLEN EMGEN5         64.18    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN5         20.36    24.63    28.15    40.38    37.14    38.52

BUILDLEN EMGEN6         40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN6         98.70    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN6         29.81    70.66    81.29    75.56    71.93    41.49
BUILDLEN EMGEN6         40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN6         20.09    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN6         29.81    51.26    27.03    30.17    32.40    41.49

BUILDLEN EMGEN7         40.15    37.84    37.35     7.76    40.99    41.90
BUILDLEN EMGEN7         41.54    39.92    38.80    37.03    66.09    62.17
BUILDLEN EMGEN7         60.89    70.66   103.60   107.12   107.39    41.49
BUILDLEN EMGEN7         29.41    30.15    77.19     7.76    40.99    41.90
BUILDLEN EMGEN7         41.54    39.92    38.80    37.03    20.12    62.17
BUILDLEN EMGEN7         60.89    70.66    26.12    71.03    71.93    41.49

BUILDLEN EMGEN8         37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN8         44.12    43.79    26.70    23.19    20.69    19.68
BUILDLEN EMGEN8         18.74    23.24    27.03    33.90    36.04    37.09
BUILDLEN EMGEN8         37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN8         31.21    29.40    26.70    23.19    20.69    19.68
BUILDLEN EMGEN8         18.74    23.24    27.03    33.90    36.04    37.09

XBADJ    EMGEN1        -50.56   -42.27   -32.69   -27.79   -26.50   -24.41
XBADJ    EMGEN1        -21.58     8.16    15.00    21.39    27.13    32.04
XBADJ    EMGEN1         33.01    30.04    26.16    21.48    16.15    10.33
XBADJ    EMGEN1          0.63    -2.07   -10.00   -19.29   -27.99   -35.84
XBADJ    EMGEN1        -42.60   -48.07   -53.80   -58.42   -61.27   -62.25
XBADJ    EMGEN1       -137.38  -143.28  -144.82  -151.53   -53.29   -48.85

XBADJ    EMGEN2        -81.78   -83.55   -82.79   -83.37   -82.21   -78.56
XBADJ    EMGEN2        -31.55   -93.15   -97.43   -98.75   -97.06   -92.43
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XBADJ	EMGEN2	-87.96	-118.76	-117.86	21.75	29.34	36.03
XBADJ	EMGEN2	41.63	45.72	45.44	43.78	40.79	35.46
XBADJ	EMGEN2	-130.12	53.24	58.63	61.71	62.92	62.22
XBADJ	EMGEN2	58.16	-125.27	-132.50	-135.70	-70.91	-77.52
XBADJ	EMGEN3	-121.76	-121.70	-117.94	-5.55	-90.36	-96.60
XBADJ	EMGEN3	-99.91	-100.18	-97.41	-91.68	-115.11	-104.08
XBADJ	EMGEN3	-92.94	-87.65	34.90	32.24	28.59	76.63
XBADJ	EMGEN3	34.76	31.69	-1.81	-2.21	49.37	54.70
XBADJ	EMGEN3	58.37	60.27	58.61	54.64	-122.34	41.90
XBADJ	EMGEN3	32.05	16.98	-122.78	-139.36	-141.26	-118.12
XBADJ	EMGEN4	-75.36	-74.08	-16.67	-64.87	-22.50	-24.79
XBADJ	EMGEN4	-228.73	-229.48	-26.99	-26.09	-24.39	-21.95
XBADJ	EMGEN4	-19.49	-21.01	-21.89	31.75	35.04	37.26
XBADJ	EMGEN4	38.35	38.28	-13.68	16.99	-9.46	-7.28
XBADJ	EMGEN4	-4.88	-2.33	0.29	2.90	3.70	2.27
XBADJ	EMGEN4	0.75	-2.23	-5.13	-65.65	-71.08	-74.35
XBADJ	EMGEN5	-50.77	-42.22	-32.39	-27.24	-25.73	-23.43
XBADJ	EMGEN5	-20.42	9.45	16.40	22.85	28.60	33.48
XBADJ	EMGEN5	34.38	31.29	27.25	22.39	16.85	10.79
XBADJ	EMGEN5	0.84	-2.11	-10.30	-19.84	-28.77	-36.83
XBADJ	EMGEN5	-43.76	-49.37	-55.20	-59.88	-62.74	-63.69
XBADJ	EMGEN5	-138.75	-144.53	-145.92	-152.44	-53.99	-49.31
XBADJ	EMGEN6	-82.62	-84.67	-84.15	-84.93	-83.93	-80.38
XBADJ	EMGEN6	-33.41	-95.01	-99.22	-100.42	-98.56	-93.71
XBADJ	EMGEN6	-88.99	-119.50	-118.29	21.65	29.56	36.57
XBADJ	EMGEN6	42.47	46.84	46.80	45.34	42.51	37.28
XBADJ	EMGEN6	-121.58	55.09	60.42	63.38	64.42	63.50
XBADJ	EMGEN6	59.18	-124.54	-132.07	-135.60	-135.00	-78.06
XBADJ	EMGEN7	-122.45	-122.62	-119.05	-6.83	-91.76	-98.09
XBADJ	EMGEN7	-101.43	-101.69	-98.86	-93.03	-116.32	-105.11
XBADJ	EMGEN7	-93.76	-88.23	34.57	32.17	28.79	77.08
XBADJ	EMGEN7	35.45	32.61	7.92	-0.94	50.77	56.18
XBADJ	EMGEN7	59.89	61.77	60.06	55.99	-121.13	42.93
XBADJ	EMGEN7	32.87	17.57	-122.44	-139.29	-141.45	-118.57
XBADJ	EMGEN8	-76.93	-75.78	-18.46	-66.68	-24.28	-26.49
XBADJ	EMGEN8	-230.29	-230.86	-28.15	-26.99	-25.01	-22.26
XBADJ	EMGEN8	-19.49	-20.69	-21.27	32.66	36.20	38.65
XBADJ	EMGEN8	39.92	39.98	-11.90	18.80	-7.68	-5.58
XBADJ	EMGEN8	-3.31	-0.95	1.45	3.80	4.32	2.58
XBADJ	EMGEN8	0.74	-2.55	-5.76	-66.56	-72.25	-75.74
YBADJ	EMGEN1	-24.42	-28.22	-31.16	-32.37	-33.76	-34.13
YBADJ	EMGEN1	-33.46	-39.24	-33.82	-27.38	-20.10	-11.34
YBADJ	EMGEN1	-1.41	7.50	14.89	21.83	28.11	33.54
YBADJ	EMGEN1	24.42	28.22	31.16	32.37	33.76	34.13
YBADJ	EMGEN1	33.46	39.24	33.82	27.38	20.10	11.34
YBADJ	EMGEN1	32.83	10.22	-12.70	-36.64	-28.11	-33.54
YBADJ	EMGEN2	22.66	11.60	0.19	-10.95	-22.06	-32.49
YBADJ	EMGEN2	-47.64	33.67	20.38	6.48	-7.61	-20.61
YBADJ	EMGEN2	-32.16	-26.11	-44.69	-38.34	-42.39	-33.02

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YBADJ      EMGEN2           -22.66    -11.60     -0.19     10.95     22.06     32.49
YBADJ      EMGEN2            20.24    -33.67    -20.38     -6.48      7.61     20.61
YBADJ      EMGEN2            32.16     18.54     19.61     -1.38     42.39     33.02

YBADJ      EMGEN3            15.59     -2.31    -20.13     -3.82     34.81     21.62
YBADJ      EMGEN3             7.77     -6.32    -20.22    -33.50    -13.32    -24.52
YBADJ      EMGEN3           -37.82    -52.19    -15.21      3.94     22.96    -33.00
YBADJ      EMGEN3            11.28     19.65      3.47      3.82    -34.81    -21.62
YBADJ      EMGEN3            -7.77      6.32     20.22     33.50    -21.62     24.52
YBADJ      EMGEN3            37.82     52.19    -22.18     15.59     34.43     33.00

YBADJ      EMGEN4             0.45     -9.15     10.47     -9.60      9.39      8.38
YBADJ      EMGEN4            23.52    -12.78      3.98      2.20      0.36     -1.50
YBADJ      EMGEN4            -4.09     -6.52     -8.76    -28.03    -19.33    -10.04
YBADJ      EMGEN4            -0.45      9.15    -10.47      9.60     -9.39     -8.38
YBADJ      EMGEN4            -7.11     -5.63     -3.97     -2.20     -0.36      1.50
YBADJ      EMGEN4             4.09      6.52      8.76     28.03     19.33     10.04

YBADJ      EMGEN5           -25.88    -29.69    -32.61    -33.74    -35.02    -35.23
YBADJ      EMGEN5           -34.38    -39.94    -34.28    -27.59    -20.06    -11.04
YBADJ      EMGEN5            -0.87      8.27     15.87     22.99     29.41     34.94
YBADJ      EMGEN5            25.88     29.69     32.61     33.74     35.02     35.23
YBADJ      EMGEN5            34.38     39.94     34.28     27.59     20.06     11.04
YBADJ      EMGEN5            32.28      9.44    -13.68    -37.80    -29.41    -34.94

YBADJ      EMGEN6            24.33     13.10      1.47     -9.92    -21.32    -32.07
YBADJ      EMGEN6           -47.54     33.45     19.84      5.64     -8.73    -21.98
YBADJ      EMGEN6           -33.72    -27.82    -46.51    -40.21    -29.26    -34.81
YBADJ      EMGEN6           -24.33    -13.10     -1.47      9.92     21.32     32.07
YBADJ      EMGEN6            11.17    -33.45    -19.84     -5.64      8.73     21.98
YBADJ      EMGEN6            33.72     20.26     21.43      0.49    -20.48     34.81

YBADJ      EMGEN7            16.94     -1.10    -19.10     -3.00     35.40     21.95
YBADJ      EMGEN7             7.84     -6.51    -20.67    -34.19    -14.24    -25.64
YBADJ      EMGEN7           -39.09    -53.59    -16.69      2.42     21.45    -34.45
YBADJ      EMGEN7             9.93     18.45     29.51      3.00    -35.40    -21.95
YBADJ      EMGEN7            -7.84      6.51     20.67     34.19    -20.71     25.64
YBADJ      EMGEN7            39.09     53.59    -20.70     17.11     35.94     34.45

YBADJ      EMGEN8             1.35     -8.54     10.78     -9.60      9.07      7.76
YBADJ      EMGEN8            22.61    -13.95      2.59      0.63     -1.35     -3.28
YBADJ      EMGEN8            -5.90     -8.30    -10.46    -29.60    -20.71    -11.21
YBADJ      EMGEN8            -1.35      8.54    -10.78      9.60     -9.07     -7.76
YBADJ      EMGEN8            -6.20     -4.46     -2.58     -0.63      1.35      3.28
YBADJ      EMGEN8             5.90      8.30     10.46     29.60     20.71     11.20

SRCGROUP   EMGEN1    EMGEN1
SRCGROUP   EMGEN2    EMGEN2
SRCGROUP   EMGEN3    EMGEN3
SRCGROUP   EMGEN4    EMGEN4
SRCGROUP   EMGEN5    EMGEN5
SRCGROUP   EMGEN6    EMGEN6
SRCGROUP   EMGEN7    EMGEN7
SRCGROUP   EMGEN8    EMGEN8
SRCGROUP   INNESN    L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP   INNESN    L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP   INNESN    L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
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   SRCGROUP INNESN    L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
   SRCGROUP INNESN    L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
   SRCGROUP INNESN    L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
   SRCGROUP INNESN    L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
   SRCGROUP INNESN    L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
   SRCGROUP INNESN    L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
   SRCGROUP INNESN    L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
   SRCGROUP INNESN    L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
   SRCGROUP INNESN    L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
   SRCGROUP INNESN    L0000073 L0000074
   SRCGROUP HAWES     L0000688 L0000689 L0000690 L0000691
   SRCGROUP HUNT      L0000692 L0000693 L0000694 L0000695 L0000696 L0000697
   SRCGROUP HUNT      L0000698 L0000699 L0000700 L0000701 L0000702 L0000703
   SRCGROUP HUNT      L0000704 L0000705 L0000706 L0000707 L0000708 L0000709
   SRCGROUP HUNT      L0000710 L0000711 L0000712 L0000713 L0000714 L0000715
   SRCGROUP HUNT      L0000716 L0000717 L0000718 L0000719 L0000720 L0000721
   SRCGROUP HUNT      L0000722 L0000723
   SRCGROUP EVANS     L0000724 L0000725 L0000726 L0000727 L0000728 L0000729
   SRCGROUP EVANS     L0000730 L0000731 L0000732 L0000733 L0000734 L0000735
   SRCGROUP EVANS     L0000736 L0000737
   SRCGROUP JENN      L0000738 L0000739 L0000740 L0000741 L0000742 L0000743
   SRCGROUP JENN      L0000744 L0000745
   SRCGROUP MIDDLE    L0000746 L0000747 L0000748 L0000749 L0000750 L0000751
   SRCGROUP MIDDLE    L0000752 L0000753 L0000754 L0000755 L0000756 L0000757
   SRCGROUP MIDDLE    L0000758 L0000759 L0000760 L0000761 L0000762 L0000763
   SRCGROUP MIDDLE    L0000764 L0000765 L0000766 L0000767 L0000768 L0000769
   SRCGROUP MIDDLE    L0000770 L0000771 L0000772 L0000773 L0000774
   SRCGROUP GRIFF     L0000775 L0000776 L0000777
   SRCGROUP NHUD      L0000778 L0000779 L0000780 L0000781 L0000782 L0000783
   SRCGROUP NHUD      L0000784 L0000785 L0000786 L0000787 L0000788 L0000789
   SRCGROUP NHUD      L0000790 L0000791 L0000792 L0000793 L0000794 L0000795
   SRCGROUP NHUD      L0000796 L0000797 L0000798 L0000799 L0000800 L0000801
   SRCGROUP NHUD      L0000802 L0000803 L0000804 L0000805 L0000806 L0000807
   SRCGROUP NHUD      L0000808 L0000809 L0000810 L0000811 L0000812 L0000813
   SRCGROUP NHUD      L0000814 L0000815 L0000816 L0000817 L0000818 L0000819
   SRCGROUP NHUD      L0000820
   SRCGROUP ARELI     L0000821 L0000822 L0000823 L0000824 L0000825 L0000826
   SRCGROUP EARLN     L0000827 L0000828 L0000829 L0000830 L0000831 L0000832
   SRCGROUP EARLN     L0000833 L0000834 L0000835 L0000836 L0000837 L0000838
   SRCGROUP EARLN     L0000839 L0000840 L0000841 L0000842 L0000843 L0000844
   SRCGROUP EARLN     L0000845 L0000846 L0000847 L0000848 L0000849 L0000850
   SRCGROUP EARLN     L0000851 L0000852 L0000853 L0000854 L0000855 L0000856
   SRCGROUP EARLN     L0000857 L0000858 L0000859 L0000860 L0000861 L0000862
   SRCGROUP EARLN     L0000863 L0000864 L0000865 L0000866
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   SRCGROUP DONS      L0000873 L0000874 L0000875 L0000876 L0000877 L0000878
   SRCGROUP DONS      L0000879 L0000880 L0000881 L0000882 L0000883 L0000884
   SRCGROUP DONS      L0000885 L0000886 L0000887 L0000888 L0000889 L0000890
   SRCGROUP DONS      L0000891 L0000892 L0000893
   SRCGROUP GALVEZ    L0000894 L0000895 L0000896 L0000897 L0000898 L0000899
   SRCGROUP INNESS    L0000900 L0000901 L0000902 L0000903 L0000904 L0000905
   SRCGROUP INNESS    L0000906 L0000907 L0000908 L0000909 L0000910 L0000911
   SRCGROUP INNESS    L0000912 L0000913
   SRCGROUP HUDSON    L0000914 L0000915 L0000916 L0000917 L0000918 L0000919
   SRCGROUP HUDSON    L0000920 L0000921 L0000922 L0000923 L0000924 L0000925
   SRCGROUP HUDSON    L0000926 L0000927 L0000928 L0000929 L0000930
   SRCGROUP KIRKS     L0000931 L0000932 L0000933 L0000934 L0000935 L0000936
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    SRCGROUP KIRKS     L0000943
    SRCGROUP FRIED     L0000944 L0000945 L0000946 L0000947 L0000948 L0000949
    SRCGROUP FRIED     L0000950 L0000951 L0000952 L0000953 L0000954 L0000955
    SRCGROUP FRIED     L0000956 L0000957 L0000958 L0000959 L0000960 L0000961
    SRCGROUP FRIED     L0000962 L0000963 L0000964 L0000965 L0000966 L0000967
    SRCGROUP FRIED     L0000968
    SRCGROUP JERR      L0000969 L0000970 L0000971 L0000972 L0000973 L0000974
    SRCGROUP JERR      L0000975 L0000976 L0000977 L0000978 L0000979 L0000980
    SRCGROUP JERR      L0000981 L0000982 L0000983 L0000984 L0000985 L0000986
    SRCGROUP JERR      L0000987 L0000988 L0000989
    SRCGROUP NORTH     L0000990 L0000991 L0000992 L0000993 L0000994 L0000995
    SRCGROUP NORTH     L0000996 L0000997 L0000998 L0000999 L0001000 L0001001
    SRCGROUP NORTH     L0001002 L0001003 L0001004 L0001005 L0001006 L0001007
    SRCGROUP NORTH     L0001008 L0001009 L0001010 L0001011 L0001012 L0001013
    SRCGROUP NORTH     L0001014 L0001015 L0001016 L0001017 L0001018 L0001019
    SRCGROUP NORTH     L0001020 L0001021 L0001022 L0001023 L0001024 L0001025
    SRCGROUP NORTH     L0001026 L0001027 L0001028 L0001029 L0001030 L0001031
    SRCGROUP NORTH     L0001032 L0001033 L0001034 L0001035 L0001036 L0001037
    SRCGROUP NORTH     L0001038 L0001039 L0001040 L0001041 L0001042 L0001043
    SRCGROUP NORTH     L0001044 L0001045 L0001046 L0001047 L0001048 L0001049
    SRCGROUP NORTH     L0001050 L0001051 L0001052 L0001053 L0001054 L0001055
    SRCGROUP NORTH     L0001056 L0001057
    SRCGROUP EARLS     L0001058 L0001059 L0001060 L0001061 L0001062 L0001063
    SRCGROUP EARLS     L0001064 L0001065
    SRCGROUP KIRKN     L0001066 L0001067 L0001068 L0001069 L0001070 L0001071
    SRCGROUP KIRKN     L0001072 L0001073 L0001074 L0001075 L0001076 L0001077
    SRCGROUP KIRKN     L0001078 L0001079 L0001080 L0001081 L0001082 L0001083
    SRCGROUP KIRKN     L0001084 L0001085 L0001086 L0001087 L0001088 L0001089
    SRCGROUP KIRKN     L0001090 L0001091 L0001092 L0001093 L0001094 L0001095
    SRCGROUP KIRKN     L0001096 L0001097 L0001098 L0001099 L0001100 L0001101
    SRCGROUP KIRKN     L0001102 L0001103 L0001104 L0001105 L0001106 L0001107
    SRCGROUP KIRKN     L0001108 L0001109 L0001110 L0001111 L0001112 L0001113
    SRCGROUP KIRKN     L0001114 L0001115 L0001116 L0001117 L0001118 L0001119
    SRCGROUP KIRKN     L0001120 L0001121 L0001122 L0001123 L0001124 L0001125
    SRCGROUP KIRKN     L0001126 L0001127 L0001128 L0001129 L0001130 L0001131
    SRCGROUP KIRKN     L0001132
    SRCGROUP INGALLS   L0001133 L0001134 L0001135 L0001136 L0001137 L0001138
    SRCGROUP INGALLS   L0001139 L0001140 L0001141 L0001142 L0001143 L0001144
    SRCGROUP INGALLS   L0001145 L0001146 L0001147 L0001148 L0001149 L0001150
    SRCGROUP INGALLS   L0001151 L0001152 L0001153 L0001154 L0001155 L0001156
    SRCGROUP INGALLS   L0001157 L0001158 L0001159 L0001160 L0001161 L0001162
    SRCGROUP INGALLS   L0001163 L0001164 L0001165
SO FINISHED
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*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
    INCLUDED PRECON.ROU
RE FINISHED
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*****************************************
** AERMOD Meteorology Pathway
*****************************************
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**
**
ME STARTING
    SURFFILE mission_bay_2008.SFC
    PROFFILE mission_bay_2008.PFL
    SURFDATA 23234 2008
    UAIRDATA 23230 2008
    PROFBASE 2.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
OU RECTABLE ALLAVE 1
    PLOTFILE 1 EMGEN1 1ST Plots\EMGEN1_1hr_OpsEP.PLT
    PLOTFILE 1 EMGEN2 1ST Plots\EMGEN2_1hr_OpsEP.PLT
    PLOTFILE 1 EMGEN3 1ST Plots\EMGEN3_1hr_OpsEP.PLT
    PLOTFILE 1 EMGEN4 1ST Plots\EMGEN4_1hr_OpsEP.PLT
    PLOTFILE 1 EMGEN5 1ST Plots\EMGEN5_1hr_OpsEP.PLT
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    PLOTFILE 1 EMGEN7 1ST Plots\EMGEN7_1hr_OpsEP.PLT
    PLOTFILE 1 EMGEN8 1ST Plots\EMGEN8_1hr_OpsEP.PLT
    PLOTFILE 1 INNESN 1ST Plots\INNESN_1hr_OpsEP.PLT
    PLOTFILE 1 HAWES 1ST Plots\HAWES_1hr_OpsEP.PLT
    PLOTFILE 1 HUNT 1ST Plots\HUNT_1hr_OpsEP.PLT
    PLOTFILE 1 EVANS 1ST Plots\EVANS_1hr_OpsEP.PLT
    PLOTFILE 1 JENN 1ST Plots\JENN_1hr_OpsEP.PLT
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    PLOTFILE 1 GRIFF 1ST Plots\GRIFF_1hr_OpsEP.PLT
    PLOTFILE 1 NHUD 1ST Plots\NHUD_1hr_OpsEP.PLT
    PLOTFILE 1 ARELI 1ST Plots\ARELI_1hr_OpsEP.PLT
    PLOTFILE 1 EARLN 1ST Plots\EARLN_1hr_OpsEP.PLT
    PLOTFILE 1 DONS 1ST Plots\DONS_1hr_OpsEP.PLT
    PLOTFILE 1 GALVEZ 1ST Plots\GALVEZ_1hr_OpsEP.PLT
    PLOTFILE 1 INNESS 1ST Plots\INNESS_1hr_OpsEP.PLT
    PLOTFILE 1 HUDSON 1ST Plots\HUDSON_1hr_OpsEP.PLT
    PLOTFILE 1 KIRKS 1ST Plots\KIRKS_1hr_OpsEP.PLT
    PLOTFILE 1 FRIED 1ST Plots\FRIED_1hr_OpsEP.PLT
    PLOTFILE 1 JERR 1ST Plots\JERR_1hr_OpsEP.PLT
    PLOTFILE 1 NORTH 1ST Plots\NORTH_1hr_OpsEP.PLT
    PLOTFILE 1 EARLS 1ST Plots\EARLS_1hr_OpsEP.PLT
    PLOTFILE 1 KIRKN 1ST Plots\KIRKN_1hr_OpsEP.PLT
    PLOTFILE 1 INGALLS 1ST Plots\INGALLS_1hr_OpsEP.PLT
    PLOTFILE PERIOD EMGEN1 Plots\EMGEN1_Ann_OpsEP.PLT
    PLOTFILE PERIOD EMGEN2 Plots\EMGEN2_Ann_OpsEP.PLT
    PLOTFILE PERIOD EMGEN3 Plots\EMGEN3_Ann_OpsEP.PLT
    PLOTFILE PERIOD EMGEN4 Plots\EMGEN4_Ann_OpsEP.PLT
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    PLOTFILE PERIOD EMGEN6 Plots\EMGEN6_Ann_OpsEP.PLT
    PLOTFILE PERIOD EMGEN7 Plots\EMGEN7_Ann_OpsEP.PLT
    PLOTFILE PERIOD EMGEN8 Plots\EMGEN8_Ann_OpsEP.PLT
    PLOTFILE PERIOD INNESN Plots\INNESN_Ann_OpsEP.PLT
    PLOTFILE PERIOD HAWES Plots\HAWES_Ann_OpsEP.PLT
    PLOTFILE PERIOD HUNT Plots\HUNT_Ann_OpsEP.PLT
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    PLOTFILE PERIOD EVANS Plots\EVANS_Ann_OpsEP.PLT
    PLOTFILE PERIOD JENN Plots\JENN_Ann_OpsEP.PLT
    PLOTFILE PERIOD MIDDLE Plots\MIDDLE_Ann_OpsEP.PLT
    PLOTFILE PERIOD GRIFF Plots\GRIFF_Ann_OpsEP.PLT
    PLOTFILE PERIOD NHUD Plots\NHUD_Ann_OpsEP.PLT
    PLOTFILE PERIOD ARELI Plots\ARELI_Ann_OpsEP.PLT
    PLOTFILE PERIOD EARLN Plots\EARLN_Ann_OpsEP.PLT
    PLOTFILE PERIOD DONS Plots\DONS_Ann_OpsEP.PLT
    PLOTFILE PERIOD GALVEZ Plots\GALVEZ_Ann_OpsEP.PLT
    PLOTFILE PERIOD INNESS Plots\INNESS_Ann_OpsEP.PLT
    PLOTFILE PERIOD HUDSON Plots\HUDSON_Ann_OpsEP.PLT
    PLOTFILE PERIOD KIRKS Plots\KIRKS_Ann_OpsEP.PLT
    PLOTFILE PERIOD FRIED Plots\FRIED_Ann_OpsEP.PLT
    PLOTFILE PERIOD JERR Plots\JERR_Ann_OpsEP.PLT
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    PLOTFILE PERIOD EARLS Plots\EARLS_Ann_OpsEP.PLT
    PLOTFILE PERIOD KIRKN Plots\KIRKN_Ann_OpsEP.PLT
    PLOTFILE PERIOD INGALLS Plots\INGALLS_Ann_OpsEP.PLT
OU FINISHED
**
*****************************************
** Project Parameters
*****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
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PM2.5 and Diesel PM Calculations for Modeling

| | | | | | | | | | | | | 4056 | hrs/yr |

2018 Variant

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	AERMOD PM25 Exhaust (g/s/vol or m²)	HARP Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr	
Grading	GRADE	-	118641.4	1.28E-01	7.73E-03	1.35E-01	6.29E-02	3.81E-03	6.67E-02	6.68E-08	4.05E-09	7.09E-08	15.4600	
Building Construction	Phase1C1	-	6612.0	1.41E-02	8.37E-04	1.49E-02	6.94E-03	4.13E-04	7.35E-03	1.32E-07	7.87E-09	1.40E-07	1.6744	
Building Construction	Phase1C2	-	1468.6	3.13E-03	1.86E-04	3.31E-03	1.54E-03	9.17E-05	1.63E-03	1.32E-07	7.87E-09	1.40E-07	0.3719	
Building Construction	Phase1C3	-	514.0	1.09E-03	6.51E-05	1.16E-03	5.40E-04	3.21E-05	5.71E-04	1.32E-07	7.87E-09	1.40E-07	0.1302	
Building Construction	Phase1C4	-	4507.7	9.60E-03	5.71E-04	1.02E-02	4.73E-03	2.81E-04	5.01E-03	1.32E-07	7.87E-09	1.40E-07	1.1415	
Building Construction	Phase1C5	-	5671.8	1.21E-02	7.18E-04	1.28E-02	5.96E-03	3.54E-04	6.30E-03	1.32E-07	7.87E-09	1.40E-07	1.4363	
Building Construction	Phase1C6	-	766.3	1.63E-03	9.70E-05	1.73E-03	8.05E-04	4.78E-05	8.52E-04	1.32E-07	7.87E-09	1.40E-07	0.1941	
Building Construction	Phase1C7	-	734.6	1.56E-03	9.30E-05	1.66E-03	7.71E-04	4.59E-05	8.17E-04	1.32E-07	7.87E-09	1.40E-07	0.1860	
Building Construction	Phase1C8	-	575.2	1.22E-03	7.28E-05	1.30E-03	6.04E-04	3.59E-05	6.39E-04	1.32E-07	7.87E-09	1.40E-07	0.1457	
Road	Trucks	88	-	1.14E-01	3.43E-02	1.48E-01	5.63E-02	1.69E-02	7.32E-02	8.05E-05	2.42E-05	1.05E-04	68.6200	
Road	Worker Vehicles	88	-	3.63E-03	1.20E-04	3.75E-03	1.79E-03	5.92E-05	1.85E-03	2.56E-06	8.47E-08	2.65E-06	15.40	Speciate
Road	SUM											1.07E-04		

2019 Variant

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	AERMOD PM25 Exhaust (g/s/vol or m²)	HARP Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr	
Paving	GRADE	-	118641.4	1.27E-01	2.59E-03	1.29E-01	6.24E-02	1.28E-03	6.37E-02	6.62E-08	1.36E-09	6.76E-08	5.1800	
Building Construction	Phase1C1	-	6612.0	1.41E-02	2.26E-03	1.63E-02	6.94E-03	1.12E-03	8.05E-03	1.32E-07	2.13E-08	1.54E-07	4.5285	
Building Construction	Phase1C2	-	1468.6	3.13E-03	5.03E-04	3.63E-03	1.54E-03	2.48E-04	1.79E-03	1.32E-07	2.13E-08	1.54E-07	1.0058	
Building Construction	Phase1C3	-	514.0	1.09E-03	1.76E-04	1.27E-03	5.40E-04	8.68E-05	6.26E-04	1.32E-07	2.13E-08	1.54E-07	0.3520	
Building Construction	Phase1C4	-	4507.7	9.60E-03	1.54E-03	1.11E-02	4.73E-03	7.61E-04	5.49E-03	1.32E-07	2.13E-08	1.54E-07	3.0873	
Building Construction	Phase1C5	-	5671.8	1.21E-02	1.94E-03	1.40E-02	5.96E-03	9.58E-04	6.91E-03	1.32E-07	2.13E-08	1.54E-07	3.8845	
Building Construction	Phase1C6	-	766.3	1.63E-03	2.62E-04	1.89E-03	8.05E-04	1.29E-04	9.33E-04	1.32E-07	2.13E-08	1.54E-07	0.5248	
Building Construction	Phase1C7	-	734.6	1.56E-03	2.52E-04	1.81E-03	7.71E-04	1.24E-04	8.95E-04	1.32E-07	2.13E-08	1.54E-07	0.5031	
Building Construction	Phase1C8	-	575.2	1.22E-03	1.97E-04	1.42E-03	6.04E-04	9.71E-05	7.00E-04	1.32E-07	2.13E-08	1.54E-07	0.3939	
900 Innes	RPD1	-	9243	4.10E-03	9.38E-03	1.35E-02	2.02E-03	4.62E-03	6.65E-03	2.76E-08	6.30E-08	9.06E-08	18.7523	
900 Innes Offshore	PILE	-	31729	0.00E+00	2.79E-04	2.79E-04	0.00E+00	1.38E-04	1.38E-04	0.00E+00	5.47E-10	5.47E-10	0.5590	
Road	Trucks	88	-	1.63E-01	4.87E-02	2.12E-01	8.04E-02	2.40E-02	1.04E-01	1.15E-04	3.44E-05	1.49E-04	97.4200	
Road	Worker Vehicles	88	-	1.97E-01	6.57E-03	2.03E-01	9.70E-02	3.24E-03	1.00E-01	1.39E-04	4.64E-06	1.43E-04	765.88	Speciate
Road	SUM											2.93E-04		

2020 Variant

												AERMOD	HARP	
Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr	
Building Construction	Phase1C1	-	6612.0	0.00E+00	2.05E-03	2.05E-03	0.00E+00	1.01E-03	1.01E-03	0.00E+00	1.92E-08	1.92E-08	4.0908	
Building Construction	Phase1C2	-	1468.6	0.00E+00	4.54E-04	4.54E-04	0.00E+00	2.24E-04	2.24E-04	0.00E+00	1.92E-08	1.92E-08	0.9086	
Building Construction	Phase1C3	-	514.0	0.00E+00	1.59E-04	1.59E-04	0.00E+00	7.84E-05	7.84E-05	0.00E+00	1.92E-08	1.92E-08	0.3180	
Building Construction	Phase1C4	-	4507.7	0.00E+00	1.39E-03	1.39E-03	0.00E+00	6.88E-04	6.88E-04	0.00E+00	1.92E-08	1.92E-08	2.7889	
Building Construction	Phase1C5	-	5671.8	0.00E+00	1.75E-03	1.75E-03	0.00E+00	8.65E-04	8.65E-04	0.00E+00	1.92E-08	1.92E-08	3.5091	
Building Construction	Phase1C6	-	766.3	0.00E+00	2.37E-04	2.37E-04	0.00E+00	1.17E-04	1.17E-04	0.00E+00	1.92E-08	1.92E-08	0.4741	
Building Construction	Phase1C7	-	734.6	0.00E+00	2.27E-04	2.27E-04	0.00E+00	1.12E-04	1.12E-04	0.00E+00	1.92E-08	1.92E-08	0.4545	
Building Construction	Phase1C8	-	575.2	0.00E+00	1.78E-04	1.78E-04	0.00E+00	8.77E-05	8.77E-05	0.00E+00	1.92E-08	1.92E-08	0.3559	
Big Green	BIGGRN	-	23683.5	5.32E-03	3.25E-03	8.57E-03	2.62E-03	1.60E-03	4.23E-03	1.40E-08	8.53E-09	2.25E-08	6.5000	
Shoreline Wetlands/IBOS	SHORE	-	21869.2	1.66E-02	1.73E-03	1.84E-02	8.20E-03	8.51E-04	9.07E-03	4.73E-08	4.90E-09	5.22E-08	3.4517	
Shoreline Park	RPD2	-	29685.8	2.04E-02	6.96E-03	2.73E-02	1.01E-02	3.43E-03	1.35E-02	4.27E-08	1.46E-08	5.73E-08	13.9200	
Shoreline Park Offshore	PILE	-	31729	0.00E+00	1.27E-03	1.27E-03	0.00E+00	6.26E-04	6.26E-04	0.00E+00	2.48E-09	2.48E-09	2.5374	
Building Construction	Phase2C1	-	1298.9	3.72E-03	1.73E-04	3.89E-03	1.83E-03	8.51E-05	1.92E-03	1.78E-07	8.26E-09	1.86E-07	0.3453	
Building Construction	Phase2C2	-	828.5	2.37E-03	1.10E-04	2.48E-03	1.17E-03	5.43E-05	1.22E-03	1.78E-07	8.26E-09	1.86E-07	0.2202	
Building Construction	Phase2C3	-	3116.8	8.92E-03	4.14E-04	9.33E-03	4.40E-03	2.04E-04	4.60E-03	1.78E-07	8.26E-09	1.86E-07	0.8285	
Building Construction	Phase2C4	-	1038.9	2.97E-03	1.38E-04	3.11E-03	1.47E-03	6.81E-05	1.53E-03	1.78E-07	8.26E-09	1.86E-07	0.2761	
Building Construction	Phase2C5	-	1217.5	3.49E-03	1.62E-04	3.64E-03	1.72E-03	7.98E-05	1.80E-03	1.78E-07	8.26E-09	1.86E-07	0.3236	
Building Construction	Phase2C6	-	1086.4	3.11E-03	1.44E-04	3.25E-03	1.53E-03	7.12E-05	1.60E-03	1.78E-07	8.26E-09	1.86E-07	0.2888	
Building Construction	Phase2C7	-	2172.6	6.22E-03	2.89E-04	6.50E-03	3.07E-03	1.42E-04	3.21E-03	1.78E-07	8.26E-09	1.86E-07	0.5775	
Road	Trucks	88	-	6.97E-02	2.20E-02	9.18E-02	3.44E-02	1.09E-02	4.52E-02	4.92E-05	1.55E-05	6.47E-05	44.0400	
Road	Worker Vehicles	88	-	1.80E-01	5.98E-03	1.86E-01	8.86E-02	2.95E-03	9.15E-02	1.27E-04	4.22E-06	1.31E-04	648.52	Speciate
Road	SUM											1.96E-04		

2021 Variant   **AERMOD** **HARP**

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr
Building Construction	Phase1C1	-	6612.0	0.00E+00	1.59E-05	1.59E-05	0.00E+00	7.82E-06	7.82E-06	0.00E+00	1.49E-10	1.49E-10	0.0317
Building Construction	Phase1C2	-	1468.6	0.00E+00	3.52E-06	3.52E-06	0.00E+00	1.74E-06	1.74E-06	0.00E+00	1.49E-10	1.49E-10	0.0070
Building Construction	Phase1C3	-	514.0	0.00E+00	1.23E-06	1.23E-06	0.00E+00	6.08E-07	6.08E-07	0.00E+00	1.49E-10	1.49E-10	0.0025
Building Construction	Phase1C4	-	4507.7	0.00E+00	1.08E-05	1.08E-05	0.00E+00	5.33E-06	5.33E-06	0.00E+00	1.49E-10	1.49E-10	0.0216
Building Construction	Phase1C5	-	5671.8	0.00E+00	1.36E-05	1.36E-05	0.00E+00	6.71E-06	6.71E-06	0.00E+00	1.49E-10	1.49E-10	0.0272
Building Construction	Phase1C6	-	766.3	0.00E+00	1.84E-06	1.84E-06	0.00E+00	9.06E-07	9.06E-07	0.00E+00	1.49E-10	1.49E-10	0.0037
Building Construction	Phase1C7	-	734.6	0.00E+00	1.76E-06	1.76E-06	0.00E+00	8.69E-07	8.69E-07	0.00E+00	1.49E-10	1.49E-10	0.0035
Building Construction	Phase1C8	-	575.2	0.00E+00	1.38E-06	1.38E-06	0.00E+00	6.80E-07	6.80E-07	0.00E+00	1.49E-10	1.49E-10	0.0028
Big Green	BIGGRN	-	23683.5	0.00E+00	1.67E-03	1.67E-03	0.00E+00	8.23E-04	8.23E-04	0.00E+00	4.38E-09	4.38E-09	3.3400
Shoreline Wetlands/IBOS	SHORE	-	21869.2	0.00E+00	4.48E-03	4.48E-03	0.00E+00	2.21E-03	2.21E-03	0.00E+00	1.27E-08	1.27E-08	8.9552
Building Construction	Phase2C1	-	1298.9	3.72E-03	8.49E-04	4.57E-03	1.83E-03	4.18E-04	2.25E-03	1.78E-07	4.06E-08	2.18E-07	1.6973
Building Construction	Phase2C2	-	828.5	2.37E-03	5.41E-04	2.92E-03	1.17E-03	2.67E-04	1.44E-03	1.78E-07	4.06E-08	2.18E-07	1.0826
Building Construction	Phase2C3	-	3116.8	8.92E-03	2.04E-03	1.10E-02	4.40E-03	1.00E-03	5.41E-03	1.78E-07	4.06E-08	2.18E-07	4.0728
Building Construction	Phase2C4	-	1038.9	2.97E-03	6.79E-04	3.66E-03	1.47E-03	3.35E-04	1.80E-03	1.78E-07	4.06E-08	2.18E-07	1.3576
Building Construction	Phase2C5	-	1217.5	3.49E-03	7.95E-04	4.29E-03	1.72E-03	3.92E-04	2.11E-03	1.78E-07	4.06E-08	2.18E-07	1.5910
Building Construction	Phase2C6	-	1086.4	3.11E-03	7.10E-04	3.82E-03	1.53E-03	3.50E-04	1.89E-03	1.78E-07	4.06E-08	2.18E-07	1.4196
Building Construction	Phase2C7	-	2172.6	6.22E-03	1.42E-03	7.65E-03	3.07E-03	7.00E-04	3.77E-03	1.78E-07	4.06E-08	2.18E-07	2.8390
Beach Pier	BEACH	-	5190.4	1.72E-02	9.20E-04	1.81E-02	8.48E-03	4.54E-04	8.94E-03	2.06E-07	1.10E-08	2.17E-07	1.8400
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN1	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN2	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
300 hp Emergency Engine at Big Green	EMGEN3	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN5	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN6	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
300 hp Emergency Engine at Big Green	EMGEN7	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
Road	Trucks	88	-	1.72E-02	2.64E-03	1.99E-02	8.48E-03	1.30E-03	9.81E-03	1.21E-05	1.86E-06	1.40E-05	5.2800
Road	Worker Vehicles	88	-	1.21E-01	3.96E-03	1.25E-01	5.98E-02	1.95E-03	6.18E-02	8.56E-05	2.80E-06	8.84E-05	419.14 Speciate
Road	SUM											1.02E-04	

2022 Variant

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²)	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr
Building Construction	Phase2C1	-	1298.9	0.00E+00	5.92E-04	5.92E-04	0.00E+00	2.92E-04	2.92E-04	0.00E+00	2.83E-08	2.83E-08	1.1831
Building Construction	Phase2C2	-	828.5	0.00E+00	3.77E-04	3.77E-04	0.00E+00	1.86E-04	1.86E-04	0.00E+00	2.83E-08	2.83E-08	0.7546
Building Construction	Phase2C3	-	3116.8	0.00E+00	1.42E-03	1.42E-03	0.00E+00	7.00E-04	7.00E-04	0.00E+00	2.83E-08	2.83E-08	2.8388
Building Construction	Phase2C4	-	1038.9	0.00E+00	4.73E-04	4.73E-04	0.00E+00	2.33E-04	2.33E-04	0.00E+00	2.83E-08	2.83E-08	0.9462
Building Construction	Phase2C5	-	1217.5	0.00E+00	5.54E-04	5.54E-04	0.00E+00	2.73E-04	2.73E-04	0.00E+00	2.83E-08	2.83E-08	1.1089
Building Construction	Phase2C6	-	1086.4	0.00E+00	4.95E-04	4.95E-04	0.00E+00	2.44E-04	2.44E-04	0.00E+00	2.83E-08	2.83E-08	0.9895
Building Construction	Phase2C7	-	2172.6	0.00E+00	9.89E-04	9.89E-04	0.00E+00	4.88E-04	4.88E-04	0.00E+00	2.83E-08	2.83E-08	1.9788
Beach Pier	BEACH	-	5190.4	0.00E+00	4.34E-03	4.34E-03	0.00E+00	2.14E-03	2.14E-03	0.00E+00	5.19E-08	5.19E-08	8.6800
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN1	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN2	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
300 hp Emergency Engine at Big Green	EMGEN3	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN5	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN6	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.7242
300 hp Emergency Engine at Big Green	EMGEN7	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.3621
Road	Trucks	88	-	1.02E-02	1.39E-03	1.16E-02	5.03E-03	6.85E-04	5.72E-03	7.20E-06	9.81E-07	8.18E-06	2.7800
Road	Worker Vehicles	88	-	7.81E-02	2.52E-03	8.06E-02	3.85E-02	1.24E-03	3.98E-02	5.51E-05	1.78E-06	5.69E-05	248.94 Speciate
Road	SUM											6.51E-05	

Operations - Variant

Sources	IDs	# of Volumes	Area (m²)	PM25 Dust (tons/yr)	PM25 Exhaust (tons/yr)	PM25 Total (tons/yr)	PM25 Dust (lb/hr)	PM25 Exhaust (lb/hr)	Total PM25 (lb/hr)	PM25 Dust (g/s/m²)	PM25 Exhaust (g/s/vol or m²) [AERMOD]	Total PM25 (g/s/vol or m²)	PM2.5 or TOG lb/yr [HARP]	
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN1	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.724	
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN2	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.724	
300 hp Emergency Engine at Big Green	EMGEN3	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.362	
300 hp Emergency Engine at Flats & Earl	EMGEN4	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.362	
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN5	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.724	
600 hp Emergency Engine at Hamman Hillside Cove	EMGEN6	-	-	-	0.000	0.000	-	8.27E-05	8.27E-05	-	1.04E-05	1.04E-05	0.724	
300 hp Emergency Engine at Big Green	EMGEN7	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.362	
300 hp Emergency Engine at Flats & Earl	EMGEN8	-	-	-	0.000	0.000	-	4.13E-05	4.13E-05	-	5.21E-06	5.21E-06	0.362	
Innes Avenue (North of Donahue Street)	INNESN	74	Cars	1.28E-01	7.82E-03	1.36E-01	2.92E-02	1.79E-03	3.10E-02	4.97E-05	3.04E-06	5.27E-05	565.06	Speciate
Hunter's Point Boulevard	HUNT	32	Cars	7.52E-02	4.60E-03	7.98E-02	1.72E-02	1.05E-03	1.82E-02	6.76E-05	4.14E-06	7.18E-05	332.46	Speciate
Evans Avenue	EVANS	14	Cars	3.29E-02	2.01E-03	3.49E-02	7.51E-03	4.60E-04	7.97E-03	6.76E-05	4.14E-06	7.18E-05	145.45	Speciate
New Griffith Street	GRIFF	3	Cars	2.56E-02	1.57E-03	2.71E-02	5.84E-03	3.57E-04	6.20E-03	2.45E-04	1.50E-05	2.60E-04	113.06	Speciate
New Hudson Street (Avenue?)	NHUD	43	Cars	4.86E-02	2.97E-03	5.15E-02	1.11E-02	6.79E-04	1.18E-02	3.25E-05	1.99E-06	3.45E-05	214.69	Speciate
Arelious Walker Drive	ARELI	6	Cars	5.54E-02	3.39E-03	5.87E-02	1.26E-02	7.73E-04	1.34E-02	2.65E-04	1.62E-05	2.82E-04	244.67	Speciate
Earl Street (North of Innes Avenue)	EARLN	39	Cars	4.86E-02	2.97E-03	5.15E-02	1.11E-02	6.79E-04	1.18E-02	3.58E-05	2.19E-06	3.80E-05	214.69	Speciate
Donahue Street (South of Galvez Avenue)	DONS	27	Cars	1.31E-03	8.04E-05	1.40E-03	3.00E-04	1.84E-05	3.19E-04	1.40E-06	8.57E-08	1.49E-06	5.81	Speciate
Galvez Avenue	GALVEZ	6	Cars	2.92E-04	1.79E-05	3.10E-04	6.67E-05	4.08E-06	7.08E-05	1.40E-06	8.57E-08	1.49E-06	1.29	Speciate
Innes Avenue (South of Donahue Street)	INNESS	14	Cars	6.82E-04	4.17E-05	7.23E-04	1.56E-04	9.52E-06	1.65E-04	1.40E-06	8.57E-08	1.49E-06	3.01	Speciate
Hudson Avenue	HUDSON	17	Cars	8.28E-04	5.06E-05	8.78E-04	1.89E-04	1.16E-05	2.01E-04	1.40E-06	8.57E-08	1.49E-06	3.66	Speciate
Kirkwood Avenue/La Salle (South of Donahue Street)	KIRKS	13	Cars	6.33E-04	3.87E-05	6.72E-04	1.45E-04	8.84E-06	1.53E-04	1.40E-06	8.57E-08	1.49E-06	2.80	Speciate
Friedell Street	FRIED	25	Cars	1.22E-03	7.45E-05	1.29E-03	2.78E-04	1.70E-05	2.95E-04	1.40E-06	8.57E-08	1.49E-06	5.38	Speciate
Jerrold Avenue	JERR	20	Cars	9.74E-04	5.96E-05	1.03E-03	2.22E-04	1.36E-05	2.36E-04	1.40E-06	8.57E-08	1.49E-06	4.30	Speciate

Street	Code	Count	Type											
Northridge Road	NORTH	68	Cars	3.31E-03	2.03E-04	3.51E-03	7.56E-04	4.63E-05	8.02E-04	1.40E-06	8.57E-08	1.49E-06	14.64	Speciate
Earl Street (South of Innes Avenue)	EARLS	8	Cars	3.90E-04	2.38E-05	4.13E-04	8.89E-05	5.44E-06	9.44E-05	1.40E-06	8.57E-08	1.49E-06	1.72	Speciate
Kirkwood Avenue/La Salle (North of Donahue Street)	KIRKN	67	Cars	3.26E-03	2.00E-04	3.46E-03	7.45E-04	4.56E-05	7.90E-04	1.40E-06	8.57E-08	1.49E-06	14.42	Speciate
Ingalls Street	INGALLS	33	Cars	1.61E-03	9.83E-05	1.71E-03	3.67E-04	2.24E-05	3.89E-04	1.40E-06	8.57E-08	1.49E-06	7.10	Speciate
Jennings Street	JENN	8	Cars	2.18E-03	1.34E-04	2.32E-03	4.99E-04	3.05E-05	5.29E-04	7.85E-06	4.81E-07	8.34E-06	9.65	Speciate
Middle Point Road	MIDDLE	29	Cars	1.41E-03	8.64E-05	1.50E-03	3.22E-04	1.97E-05	3.42E-04	1.40E-06	8.57E-08	1.49E-06	6.24	Speciate
Hawes Street	HAWES	4	Cars	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00	Speciate
Innes Avenue (North of Donahue Street)	INNESN	74	Trucks	9.03E-03	5.52E-04	9.58E-03	-	1.26E-04	1.26E-04	-	2.15E-07	2.15E-07	1.1047	
Hunter's Point Boulevard	HUNT	32	Trucks	5.31E-03	3.25E-04	5.64E-03	-	7.42E-05	7.42E-05	-	2.92E-07	2.92E-07	0.6499	
Evans Avenue	EVANS	14	Trucks	2.32E-03	1.42E-04	2.47E-03	-	3.25E-05	3.25E-05	-	2.92E-07	2.92E-07	0.0051	
New Griffith Street	GRIFF	3	Trucks	1.81E-03	1.11E-04	1.92E-03	-	2.52E-05	2.52E-05	-	1.06E-06	1.06E-06	0.0040	
New Hudson Street (Avenue?)	NHUD	43	Trucks	3.43E-03	2.10E-04	3.64E-03	-	4.79E-05	4.79E-05	-	1.40E-07	1.40E-07	0.4197	
Arelious Walker Drive	ARELI	6	Trucks	3.91E-03	2.39E-04	4.15E-03	-	5.46E-05	5.46E-05	-	1.15E-06	1.15E-06	0.4783	
Earl Street (North of Innes Avenue)	EARLN	39	Trucks	3.43E-03	2.10E-04	3.64E-03	-	4.79E-05	4.79E-05	-	1.55E-07	1.55E-07	0.4197	
Donahue Street (South of Galvez Avenue)	DONS	27	Trucks	9.28E-05	5.68E-06	9.85E-05	-	1.30E-06	1.30E-06	-	6.05E-09	6.05E-09	0.0114	
Galvez Avenue	GALVEZ	6	Trucks	2.06E-05	1.26E-06	2.19E-05	-	2.88E-07	2.88E-07	-	6.05E-09	6.05E-09	0.0025	
Innes Avenue (South of Donahue Street)	INNESS	14	Trucks	4.81E-05	2.95E-06	5.11E-05	-	6.72E-07	6.72E-07	-	6.05E-09	6.05E-09	0.0059	
Hudson Avenue	HUDSON	17	Trucks	5.85E-05	3.58E-06	6.20E-05	-	8.17E-07	8.17E-07	-	6.05E-09	6.05E-09	0.0072	
Kirkwood Avenue/La Salle (South of Donahue Street)	KIRKS	13	Trucks	4.47E-05	2.73E-06	4.74E-05	-	6.24E-07	6.24E-07	-	6.05E-09	6.05E-09	0.0055	
Friedell Street	FRIED	25	Trucks	8.60E-05	5.26E-06	9.12E-05	-	1.20E-06	1.20E-06	-	6.05E-09	6.05E-09	0.0105	
Jerrold Avenue	JERR	20	Trucks	6.88E-05	4.21E-06	7.30E-05	-	9.61E-07	9.61E-07	-	6.05E-09	6.05E-09	0.0084	
Northridge Road	NORTH	68	Trucks	2.34E-04	1.43E-05	2.48E-04	-	3.27E-06	3.27E-06	-	6.05E-09	6.05E-09	0.0286	
Earl Street (South of Innes Avenue)	EARLS	8	Trucks	2.75E-05	1.68E-06	2.92E-05	-	3.84E-07	3.84E-07	-	6.05E-09	6.05E-09	0.0034	
Kirkwood Avenue/La Salle (North of Donahue Street)	KIRKN	67	Trucks	2.30E-04	1.41E-05	2.44E-04	-	3.22E-06	3.22E-06	-	6.05E-09	6.05E-09	0.0282	
Ingalls Street	INGALLS	33	Trucks	1.13E-04	6.94E-06	1.20E-04	-	1.59E-06	1.59E-06	-	6.05E-09	6.05E-09	0.0139	
Jennings Street	JENN	8	Trucks	1.54E-04	9.44E-06	1.64E-04	-	2.15E-06	2.15E-06	-	3.39E-08	3.39E-08	0.0189	
Middle Point Road	MIDDLE	29	Trucks	9.97E-05	6.10E-06	1.06E-04	-	1.39E-06	1.39E-06	-	6.05E-09	6.05E-09	0.0122	
Hawes Street	HAWES	4	Trucks	0.00E+00	0.00E+00	0.00E+00	-	0.00E+00	0.00E+00	-	0.00E+00	0.00E+00	0.0000	

Street	Code	Count	Type			Col A			Col B			Col C	Col D
Innes Avenue (North of Donahue Street)	INNESN	74	Total			1.45E-01			3.11E-02			5.30E-05	N/A
Hunter's Point Boulevard	HUNT	32	Total			8.55E-02			1.83E-02			7.20E-05	N/A
Evans Avenue	EVANS	14	Total			3.74E-02			8.01E-03			7.20E-05	N/A
New Griffith Street	GRIFF	3	Total			2.91E-02			6.22E-03			2.61E-04	N/A
New Hudson Street (Avenue?)	NHUD	43	Total			5.52E-02			1.18E-02			3.46E-05	N/A
Arelious Walker Drive	ARELI	6	Total			6.29E-02			1.35E-02			2.83E-04	N/A
Earl Street (North of Innes Avenue)	EARLN	39	Total			5.52E-02			1.18E-02			3.82E-05	N/A
Donahue Street (South of Galvez Avenue)	DONS	27	Total			1.49E-03			3.20E-04			1.49E-06	N/A
Galvez Avenue	GALVEZ	6	Total			3.32E-04			7.11E-05			1.49E-06	N/A
Innes Avenue (South of Donahue Street)	INNESS	14	Total			7.75E-04			1.66E-04			1.49E-06	N/A
Hudson Avenue	HUDSON	17	Total			9.40E-04			2.01E-04			1.49E-06	N/A
Kirkwood Avenue/La Salle (South of Donahue Street)	KIRKS	13	Total			7.19E-04			1.54E-04			1.49E-06	N/A
Friedell Street	FRIED	25	Total			1.38E-03			2.96E-04			1.49E-06	N/A
Jerrold Avenue	JERR	20	Total			1.11E-03			2.37E-04			1.49E-06	N/A
Northridge Road	NORTH	68	Total			3.76E-03			8.05E-04			1.49E-06	N/A
Earl Street (South of Innes Avenue)	EARLS	8	Total			4.43E-04			9.48E-05			1.49E-06	N/A
Kirkwood Avenue/La Salle (North of Donahue Street)	KIRKN	67	Total			3.71E-03			7.94E-04			1.49E-06	N/A
Ingalls Street	INGALLS	33	Total			1.83E-03			3.91E-04			1.49E-06	N/A
Jennings Street	JENN	8	Total			2.48E-03			5.31E-04			8.37E-06	N/A
Middle Point Road	MIDDLE	29	Total			1.60E-03			3.44E-04			1.49E-06	N/A
Hawes Street	HAWES	4	Total			0.00E+00			0.00E+00			0.00E+00	N/A
				0.463	0.028	0.491							

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*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE 2018-2020 Existing Receptors - Maximum Commerical Variant Option
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   FLAGPOLE 1.80
   RUNORNOT RUN
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION GRADE        AREAPOLY   555042.085   4176328.678      6.096
   LOCATION PHASE1C1      AREAPOLY   555026.479   4176281.861      6.096
   LOCATION PHASE1C2      AREAPOLY   555222.916   4176198.157      7.620
   LOCATION PHASE1C3      AREAPOLY   555289.282   4176118.664     12.192
   LOCATION PHASE1C4      AREAPOLY   555229.049   4176203.404      5.182
   LOCATION PHASE1C5      AREAPOLY   555319.797   4176185.976      6.096
   LOCATION PHASE1C6      AREAPOLY   555172.354   4176309.620      4.572
   LOCATION PHASE1C7      AREAPOLY   555097.859   4176300.036      4.572
   LOCATION PHASE1C8      AREAPOLY   555465.541   4176252.551      4.572
   LOCATION BIGGRN        AREAPOLY   555029.810   4176309.841      4.572
   LOCATION SHORE         AREAPOLY   555121.109   4176331.718      4.572
   LOCATION RPD1          AREAPOLY   554905.075   4176422.558     12.380
   LOCATION RPD2          AREAPOLY   554918.029   4176546.199     15.180
   LOCATION PILE          AREAPOLY   555036.003   4176394.153      0.000
   LOCATION PHASE2C1      AREAPOLY   555388.531   4176143.749      5.791
   LOCATION PHASE2C2      AREAPOLY   555433.844   4176203.876      5.182
   LOCATION PHASE2C3      AREAPOLY   555354.546   4176254.417      5.182
   LOCATION PHASE2C4      AREAPOLY   555316.578   4176272.940      5.182
   LOCATION PHASE2C5      AREAPOLY   555322.465   4176279.362      4.572
   LOCATION PHASE2C6      AREAPOLY   555398.992   4176311.471      4.572
   LOCATION PHASE2C7      AREAPOLY   555359.658   4176270.532      5.182
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = CONST
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 8
** 555339.829, 4176031.731, 18.90, 2.00, 6.24
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** 554903.494, 4176341.253, 12.12, 2.00, 6.24
** 554890.980, 4176370.453, 12.52, 2.00, 6.24
** 554890.980, 4176412.167, 12.52, 2.00, 6.24
** 554897.654, 4176446.373, 12.75, 2.00, 6.24
** 554913.506, 4176649.941, 14.38, 2.00, 6.24
** 554849.265, 4176789.267, 10.80, 2.00, 6.24
** 554702.430, 4176896.057, 9.06, 2.00, 6.24
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   LOCATION L0001430     VOLUME     555334.360 4176035.610 18.82
   LOCATION L0001431     VOLUME     555323.423 4176043.369 18.65
   LOCATION L0001432     VOLUME     555312.485 4176051.128 18.48
   LOCATION L0001433     VOLUME     555301.548 4176058.887 18.31
   LOCATION L0001434     VOLUME     555290.610 4176066.645 18.14
   LOCATION L0001435     VOLUME     555279.672 4176074.404 17.97
   LOCATION L0001436     VOLUME     555268.735 4176082.163 17.80
   LOCATION L0001437     VOLUME     555257.797 4176089.922 17.63
   LOCATION L0001438     VOLUME     555246.860 4176097.680 17.46
   LOCATION L0001439     VOLUME     555235.922 4176105.439 17.29
   LOCATION L0001440     VOLUME     555224.985 4176113.198 17.12
   LOCATION L0001441     VOLUME     555214.047 4176120.957 16.95
   LOCATION L0001442     VOLUME     555203.110 4176128.715 16.78
   LOCATION L0001443     VOLUME     555192.172 4176136.474 16.61
   LOCATION L0001444     VOLUME     555181.235 4176144.233 16.44
   LOCATION L0001445     VOLUME     555170.297 4176151.992 16.27
   LOCATION L0001446     VOLUME     555159.359 4176159.750 16.10
   LOCATION L0001447     VOLUME     555148.422 4176167.509 15.93
   LOCATION L0001448     VOLUME     555137.484 4176175.268 15.76
   LOCATION L0001449     VOLUME     555126.547 4176183.027 15.59
   LOCATION L0001450     VOLUME     555115.609 4176190.785 15.42
   LOCATION L0001451     VOLUME     555104.672 4176198.544 15.25
   LOCATION L0001452     VOLUME     555093.734 4176206.303 15.08
   LOCATION L0001453     VOLUME     555082.797 4176214.062 14.91
   LOCATION L0001454     VOLUME     555071.859 4176221.820 14.74
   LOCATION L0001455     VOLUME     555060.922 4176229.579 14.57
   LOCATION L0001456     VOLUME     555049.984 4176237.338 14.40
   LOCATION L0001457     VOLUME     555039.046 4176245.096 14.23
   LOCATION L0001458     VOLUME     555028.109 4176252.855 14.06
   LOCATION L0001459     VOLUME     555017.171 4176260.614 13.89
   LOCATION L0001460     VOLUME     555006.234 4176268.373 13.72
   LOCATION L0001461     VOLUME     554995.296 4176276.131 13.55
   LOCATION L0001462     VOLUME     554984.359 4176283.890 13.38
   LOCATION L0001463     VOLUME     554973.421 4176291.649 13.21
   LOCATION L0001464     VOLUME     554962.484 4176299.408 13.04
   LOCATION L0001465     VOLUME     554951.546 4176307.166 12.87
   LOCATION L0001466     VOLUME     554940.608 4176314.925 12.70
   LOCATION L0001467     VOLUME     554929.671 4176322.684 12.53
   LOCATION L0001468     VOLUME     554918.733 4176330.443 12.36
   LOCATION L0001469     VOLUME     554907.796 4176338.201 12.19
   LOCATION L0001470     VOLUME     554900.289 4176348.731 12.22
   LOCATION L0001471     VOLUME     554895.007 4176361.057 12.39
   LOCATION L0001472     VOLUME     554890.980 4176373.640 12.52
   LOCATION L0001473     VOLUME     554890.980 4176387.050 12.52
   LOCATION L0001474     VOLUME     554890.980 4176400.460 12.52
   LOCATION L0001475     VOLUME     554891.306 4176413.839 12.53
   LOCATION L0001476     VOLUME     554893.874 4176427.000 12.62
   LOCATION L0001477     VOLUME     554896.442 4176440.162 12.71
   LOCATION L0001478     VOLUME     554898.204 4176453.434 12.81
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    LOCATION L0001479     VOLUME    554899.245 4176466.803 12.91
    LOCATION L0001480     VOLUME    554900.286 4176480.173 13.02
    LOCATION L0001481     VOLUME    554901.327 4176493.542 13.13
    LOCATION L0001482     VOLUME    554902.368 4176506.912 13.23
    LOCATION L0001483     VOLUME    554903.409 4176520.281 13.34
    LOCATION L0001484     VOLUME    554904.450 4176533.651 13.45
    LOCATION L0001485     VOLUME    554905.492 4176547.021 13.56
    LOCATION L0001486     VOLUME    554906.533 4176560.390 13.66
    LOCATION L0001487     VOLUME    554907.574 4176573.760 13.77
    LOCATION L0001488     VOLUME    554908.615 4176587.129 13.88
    LOCATION L0001489     VOLUME    554909.656 4176600.499 13.98
    LOCATION L0001490     VOLUME    554910.697 4176613.868 14.09
    LOCATION L0001491     VOLUME    554911.738 4176627.238 14.20
    LOCATION L0001492     VOLUME    554912.779 4176640.607 14.31
    LOCATION L0001493     VOLUME    554911.811 4176653.617 14.29
    LOCATION L0001494     VOLUME    554906.196 4176665.795 13.97
    LOCATION L0001495     VOLUME    554900.581 4176677.973 13.66
    LOCATION L0001496     VOLUME    554894.966 4176690.151 13.35
    LOCATION L0001497     VOLUME    554889.351 4176702.328 13.03
    LOCATION L0001498     VOLUME    554883.736 4176714.506 12.72
    LOCATION L0001499     VOLUME    554878.121 4176726.684 12.41
    LOCATION L0001500     VOLUME    554872.506 4176738.862 12.10
    LOCATION L0001501     VOLUME    554866.891 4176751.040 11.78
    LOCATION L0001502     VOLUME    554861.276 4176763.218 11.47
    LOCATION L0001503     VOLUME    554855.661 4176775.395 11.16
    LOCATION L0001504     VOLUME    554850.046 4176787.573 10.84
    LOCATION L0001505     VOLUME    554839.928 4176796.057 10.69
    LOCATION L0001506     VOLUME    554829.083 4176803.945 10.56
    LOCATION L0001507     VOLUME    554818.238 4176811.832 10.43
    LOCATION L0001508     VOLUME    554807.393 4176819.720 10.30
    LOCATION L0001509     VOLUME    554796.548 4176827.607 10.18
    LOCATION L0001510     VOLUME    554785.703 4176835.495 10.05
    LOCATION L0001511     VOLUME    554774.858 4176843.382 9.92
    LOCATION L0001512     VOLUME    554764.012 4176851.269 9.79
    LOCATION L0001513     VOLUME    554753.167 4176859.157 9.66
    LOCATION L0001514     VOLUME    554742.322 4176867.044 9.53
    LOCATION L0001515     VOLUME    554731.477 4176874.932 9.40
    LOCATION L0001516     VOLUME    554720.632 4176882.819 9.28
    LOCATION L0001517     VOLUME    554709.787 4176890.707 9.15
** End of LINE VOLUME Source ID = CONST

** Source Parameters **
    SRCPARAM GRADE          8.43E-06     2.000          61      1.400
    AREAVERT GRADE          555042.085 4176328.678 555007.327 4176277.605
    AREAVERT GRADE          555037.829 4176257.034 555055.563 4176281.861
    AREAVERT GRADE          555074.006 4176269.093 555054.144 4176242.846
    AREAVERT GRADE          555092.449 4176216.600 555110.893 4176242.846
    AREAVERT GRADE          555130.045 4176229.369 555112.311 4176203.832
    AREAVERT GRADE          555138.557 4176185.389 555154.163 4176212.344
    AREAVERT GRADE          555185.375 4176190.354 555168.350 4176166.946
    AREAVERT GRADE          555259.147 4176102.394 555276.172 4176129.350
    AREAVERT GRADE          555288.940 4176120.128 555272.625 4176092.464
    AREAVERT GRADE          555285.394 4176084.661 555302.418 4176110.197
    AREAVERT GRADE          555352.073 4176074.020 555335.048 4176049.193
    AREAVERT GRADE          555351.363 4176039.262 555547.145 4176317.329
    AREAVERT GRADE          555526.574 4176332.934 555515.224 4176332.934
    AREAVERT GRADE          555506.712 4176342.156 555490.397 4176357.052
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AREAVERT  GRADE            555481.884 4176360.599 555469.116 4176370.530
AREAVERT  GRADE            555456.348 4176386.136 555452.092 4176390.392
AREAVERT  GRADE            555440.033 4176392.520 555403.856 4176428.697
AREAVERT  GRADE            555396.053 4176437.209 555387.540 4176441.466
AREAVERT  GRADE            555364.132 4176479.771 555349.945 4176491.830
AREAVERT  GRADE            555337.176 4176506.726 555318.024 4176514.529
AREAVERT  GRADE            555296.743 4176506.726 555271.916 4176484.027
AREAVERT  GRADE            555264.822 4176473.386 555261.985 4176464.874
AREAVERT  GRADE            555249.216 4176442.175 555226.517 4176423.732
AREAVERT  GRADE            555208.783 4176400.323 555191.049 4176374.786
AREAVERT  GRADE            555181.828 4176367.693 555168.350 4176354.924
AREAVERT  GRADE            555158.419 4176347.121 555144.941 4176340.737
AREAVERT  GRADE            555127.917 4176337.191 555120.114 4176329.388
AREAVERT  GRADE            555114.439 4176329.388 555098.834 4176337.191
AREAVERT  GRADE            555086.065 4176328.678 555078.262 4176335.062
AREAVERT  GRADE            555081.100 4176342.865 555074.006 4176347.831
AREAVERT  GRADE            555052.726 4176320.166
SRCPARAM  PHASE1C1         0.00015124    2.000        30     1.400
AREAVERT  PHASE1C1         555026.479 4176281.861 555018.677 4176270.511
AREAVERT  PHASE1C1         555037.829 4176257.034 555054.854 4176282.570
AREAVERT  PHASE1C1         555074.861 4176269.520 555058.346 4176243.383
AREAVERT  PHASE1C1         555093.159 4176218.728 555113.811 4176250.493
AREAVERT  PHASE1C1         555133.896 4176235.916 555130.435 4176228.348
AREAVERT  PHASE1C1         555141.081 4176222.616 555123.661 4176198.157
AREAVERT  PHASE1C1         555135.011 4176189.645 555152.744 4176214.472
AREAVERT  PHASE1C1         555186.084 4176189.645 555198.852 4176208.798
AREAVERT  PHASE1C1         555180.409 4176228.659 555186.111 4176237.453
AREAVERT  PHASE1C1         555180.127 4176244.292 555184.893 4176249.767
AREAVERT  PHASE1C1         555160.948 4176259.925 555152.717 4176248.321
AREAVERT  PHASE1C1         555147.779 4176249.512 555153.454 4176262.708
AREAVERT  PHASE1C1         555133.792 4176267.728 555132.628 4176266.764
AREAVERT  PHASE1C1         555094.523 4176277.886 555094.751 4176280.015
AREAVERT  PHASE1C1         555057.518 4176286.854 555045.150 4176285.034
SRCPARAM  PHASE1C2         0.000680921   2.000        12     1.400
AREAVERT  PHASE1C2         555222.916 4176198.157 555191.049 4176151.340
AREAVERT  PHASE1C2         555208.329 4176145.465 555205.237 4176141.409
AREAVERT  PHASE1C2         555213.328 4176137.084 555214.394 4176138.342
AREAVERT  PHASE1C2         555224.744 4176130.302 555235.233 4176146.455
AREAVERT  PHASE1C2         555224.699 4176152.775 555232.430 4176164.373
AREAVERT  PHASE1C2         555224.699 4176168.921 555235.387 4176184.612
SRCPARAM  PHASE1C3          0.00195      2.000         4     1.400
AREAVERT  PHASE1C3         555289.282 4176118.664 555271.089 4176092.285
AREAVERT  PHASE1C3         555284.734 4176083.871 555302.926 4176109.795
SRCPARAM  PHASE1C4         0.0002218     2.000        14     1.400
AREAVERT  PHASE1C4         555229.049 4176203.404 555242.181 4176183.279
AREAVERT  PHASE1C4         555258.307 4176191.930 555264.420 4176186.554
AREAVERT  PHASE1C4         555248.350 4176155.764 555227.822 4176124.973
AREAVERT  PHASE1C4         555251.818 4176109.148 555276.297 4176145.271
AREAVERT  PHASE1C4         555304.973 4176200.835 555290.762 4176215.243
AREAVERT  PHASE1C4         555288.478 4176213.351 555282.378 4176220.851
AREAVERT  PHASE1C4         555284.655 4176222.085 555273.784 4176232.333
SRCPARAM  PHASE1C5         0.0001763     2.000        12     1.400
AREAVERT  PHASE1C5         555319.797 4176185.976 555279.074 4176130.166
AREAVERT  PHASE1C5         555304.914 4176111.573 555305.843 4176113.179
AREAVERT  PHASE1C5         555326.772 4176099.287 555326.578 4176095.427
AREAVERT  PHASE1C5         555354.402 4176076.939 555389.225 4176116.433
AREAVERT  PHASE1C5         555368.205 4176137.487 555365.016 4176137.225
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AREAVERT PHASE1C5      555339.890 4176164.514 555339.228 4176166.513
SRCPARAM PHASE1C6      0.00130497    2.000        4     1.400
AREAVERT PHASE1C6      555172.354 4176309.620 555171.918 4176276.511
AREAVERT PHASE1C6      555190.651 4176270.412 555191.086 4176319.204
SRCPARAM PHASE1C7       0.00136     2.000        3     1.400
AREAVERT PHASE1C7      555097.859 4176300.036 555158.413 4176281.303
AREAVERT PHASE1C7      555157.978 4176305.699
SRCPARAM PHASE1C8       0.00174     2.000        4     1.400
AREAVERT PHASE1C8      555465.541 4176252.551 555485.145 4176238.610
AREAVERT PHASE1C8      555499.086 4176258.650 555478.610 4176271.719
SRCPARAM BIGGRN        0.00004222    2.000       37     1.400
AREAVERT BIGGRN        555029.810 4176309.841 555034.775 4176307.712
AREAVERT BIGGRN        555056.766 4176311.264 555078.757 4176306.693
AREAVERT BIGGRN        555095.227 4176299.684 555156.375 4176304.494
AREAVERT BIGGRN        555180.498 4176313.561 555190.688 4176317.728
AREAVERT BIGGRN        555190.871 4176268.922 555220.481 4176229.149
AREAVERT BIGGRN        555269.729 4176261.528 555284.861 4176248.543
AREAVERT BIGGRN        555302.600 4176258.155 555325.892 4176296.823
AREAVERT BIGGRN        555352.037 4176321.809 555368.667 4176338.301
AREAVERT BIGGRN        555414.595 4176354.559 555388.540 4176371.676
AREAVERT BIGGRN        555310.070 4176426.231 555283.832 4176397.478
AREAVERT BIGGRN        555250.933 4176389.866 555224.117 4176346.599
AREAVERT BIGGRN        555183.703 4176317.662 555156.791 4176308.220
AREAVERT BIGGRN        555136.196 4176304.148 555094.898 4176303.969
AREAVERT BIGGRN        555100.065 4176311.148 555111.259 4176316.378
AREAVERT BIGGRN        555120.407 4176311.309 555130.908 4176328.864
AREAVERT BIGGRN        555118.162 4176329.858 555096.816 4176337.700
AREAVERT BIGGRN        555073.703 4176314.637 555065.264 4176320.737
AREAVERT BIGGRN        555066.633 4176329.550 555053.251 4176320.710
AREAVERT BIGGRN        555041.488 4176328.551
SRCPARAM SHORE         0.00004573    2.000       34     1.400
AREAVERT SHORE         555121.109 4176331.718 555131.497 4176329.200
AREAVERT SHORE         555120.795 4176311.258 555111.666 4176315.979
AREAVERT SHORE         555100.019 4176310.943 555095.298 4176304.332
AREAVERT SHORE         555139.051 4176304.962 555181.231 4176316.923
AREAVERT SHORE         555223.726 4176346.512 555250.797 4176390.266
AREAVERT SHORE         555282.589 4176396.876 555309.345 4176427.095
AREAVERT SHORE         555414.165 4176355.326 555448.161 4176368.232
AREAVERT SHORE         555457.919 4176384.915 555450.364 4176391.525
AREAVERT SHORE         555439.977 4176392.784 555396.223 4176437.797
AREAVERT SHORE         555386.780 4176442.519 555364.116 4176479.662
AREAVERT SHORE         555349.321 4176492.568 555338.619 4176505.789
AREAVERT SHORE         555318.473 4176514.287 555275.664 4176487.217
AREAVERT SHORE         555260.869 4176467.071 555248.593 4176442.204
AREAVERT SHORE         555225.300 4176423.317 555204.210 4176394.043
AREAVERT SHORE         555190.045 4176373.583 555181.546 4176368.232
AREAVERT SHORE         555166.122 4176353.437 555151.957 4176344.624
AREAVERT SHORE         555139.051 4176340.217 555128.979 4176338.013
SRCPARAM RPD1          0.0001082     2.000       24     1.400
AREAVERT RPD1          554905.075 4176422.558 554980.246 4176369.605
AREAVERT RPD1          554962.471 4176345.536 554982.468 4176331.094
AREAVERT RPD1          554963.582 4176307.395 555016.535 4176270.365
AREAVERT RPD1          555052.084 4176320.356 555067.636 4176307.765
AREAVERT RPD1          555090.965 4176337.389 555081.707 4176343.314
AREAVERT RPD1          555090.965 4176350.720 555088.373 4176352.942
AREAVERT RPD1          555091.335 4176355.534 555088.003 4176358.867
AREAVERT RPD1          555070.599 4176347.387 555049.121 4176367.383
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AREAVERT RPD1             555080.226 4176393.675 555077.264 4176396.637
AREAVERT RPD1             555027.274 4176351.461 555010.980 4176372.197
AREAVERT RPD1             555012.462 4176379.603 554994.317 4176375.530
AREAVERT RPD1             554981.357 4176388.861 554906.927 4176439.221
SRCPARAM RPD2             0.000033686    2.000        35     1.400
AREAVERT RPD2             554918.029 4176546.199 554906.753 4176440.612
AREAVERT RPD2             554981.586 4176389.356 554993.375 4176376.542
AREAVERT RPD2             555012.339 4176378.080 555011.314 4176372.442
AREAVERT RPD2             555012.339 4176369.879 555015.927 4176368.854
AREAVERT RPD2             555025.153 4176383.206 555025.153 4176389.356
AREAVERT RPD2             555023.616 4176392.944 555039.505 4176411.909
AREAVERT RPD2             555047.706 4176416.009 555054.882 4176433.436
AREAVERT RPD2             555058.470 4176449.326 555067.696 4176465.215
AREAVERT RPD2             555076.922 4176479.054 555075.897 4176499.044
AREAVERT RPD2             555079.484 4176506.732 555079.997 4176524.159
AREAVERT RPD2             555053.656 4176549.977 555070.381 4176567.642
AREAVERT RPD2             555077.770 4176587.571 555066.158 4176604.118
AREAVERT RPD2             555063.595 4176622.570 555054.882 4176633.334
AREAVERT RPD2             555032.329 4176641.535 555015.415 4176631.283
AREAVERT RPD2             555006.701 4176620.007 554994.912 4176608.218
AREAVERT RPD2             554986.199 4176604.118 554961.084 4176568.239
AREAVERT RPD2             554957.496 4176547.224 554941.094 4176532.872
AREAVERT RPD2             554933.918 4176533.898
SRCPARAM PILE            0.000031517    2.000        19     1.400
AREAVERT PILE            555036.003 4176394.153 555071.892 4176358.264
AREAVERT PILE            555109.450 4176342.406 555136.159 4176344.075
AREAVERT PILE            555158.694 4176367.445 555172.048 4176399.996
AREAVERT PILE            555143.670 4176463.428 555163.702 4176542.718
AREAVERT PILE            555202.929 4176646.212 555161.198 4176702.133
AREAVERT PILE            555067.719 4176629.520 555086.915 4176589.457
AREAVERT PILE            555078.569 4176571.930 555061.423 4176547.953
AREAVERT PILE            555077.734 4176536.875 555085.246 4176496.813
AREAVERT PILE            555081.908 4176481.790 555064.380 4176442.562
AREAVERT PILE            555052.695 4176411.680
SRCPARAM PHASE2C1        0.00076988     2.000         6     1.400
AREAVERT PHASE2C1        555388.531 4176143.749 555402.038 4176131.985
AREAVERT PHASE2C1        555419.901 4176159.870 555443.865 4176189.062
AREAVERT PHASE2C1        555429.051 4176200.826 555407.702 4176174.684
SRCPARAM PHASE2C2         0.001207      2.000         4     1.400
AREAVERT PHASE2C2        555433.844 4176203.876 555446.044 4176196.033
AREAVERT PHASE2C2        555475.672 4176243.525 555462.165 4176250.932
SRCPARAM PHASE2C3        0.0003208      2.000        15     1.400
AREAVERT PHASE2C3        555354.546 4176254.417 555332.633 4176202.834
AREAVERT PHASE2C3        555346.815 4176191.596 555347.885 4176193.737
AREAVERT PHASE2C3        555368.221 4176180.893 555366.348 4176179.287
AREAVERT PHASE2C3        555384.008 4176170.190 555420.399 4176215.946
AREAVERT PHASE2C3        555404.611 4176227.451 555381.065 4176240.295
AREAVERT PHASE2C3        555373.037 4176223.973 555393.908 4176212.467
AREAVERT PHASE2C3        555380.529 4176195.610 555354.574 4176209.256
AREAVERT PHASE2C3        555371.699 4176246.717
SRCPARAM PHASE2C4        0.00096256     2.000         6     1.400
AREAVERT PHASE2C4        555316.578 4176272.940 555289.285 4176245.379
AREAVERT PHASE2C4        555313.100 4176219.959 555327.816 4176232.000
AREAVERT PHASE2C4        555314.438 4176245.647 555329.690 4176260.631
SRCPARAM PHASE2C5        0.0008214      2.000         8     1.400
AREAVERT PHASE2C5        555322.465 4176279.362 555338.252 4176268.391
AREAVERT PHASE2C5        555355.377 4176294.881 555361.264 4176298.895
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    AREAVERT PHASE2C5     555379.727 4176316.823 555366.883 4176330.737
    AREAVERT PHASE2C5     555348.688 4176312.006 555340.660 4176304.782
    SRCPARAM PHASE2C6     0.00092047    2.000       12     1.400
    AREAVERT PHASE2C6     555398.992 4176311.471 555408.625 4176301.571
    AREAVERT PHASE2C6     555417.188 4176297.022 555437.256 4176286.051
    AREAVERT PHASE2C6     555439.664 4176283.910 555461.873 4176268.123
    AREAVERT PHASE2C6     555469.365 4176280.699 555447.424 4176295.951
    AREAVERT PHASE2C6     555444.213 4176298.627 555423.877 4176309.330
    AREAVERT PHASE2C6     555419.328 4176312.809 555408.893 4176321.907
    SRCPARAM PHASE2C7     0.0004603     2.000       12     1.400
    AREAVERT PHASE2C7     555359.658 4176270.532 555389.092 4176301.035
    AREAVERT PHASE2C7     555401.133 4176288.994 555407.287 4176282.305
    AREAVERT PHASE2C7     555427.356 4176268.658 555444.213 4176261.166
    AREAVERT PHASE2C7     555426.553 4176225.578 555409.963 4176233.873
    AREAVERT PHASE2C7     555419.328 4176252.604 555396.584 4176267.588
    AREAVERT PHASE2C7     555388.557 4176272.940 555373.572 4176256.082
**  LINE VOLUME Source ID = CONST
    SRCPARAM L0001430     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001431     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001432     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001433     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001434     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001435     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001436     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001437     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001438     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001442     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001445     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001448     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001449     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001450     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001451     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001452     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001453     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001456     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001458     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001462     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001463     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001468     0.0113636364     2.00      6.24      2.30
    SRCPARAM L0001469     0.0113636364     2.00      6.24      2.30
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    SRCPARAM L0001471        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001472        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001473        0.0113636364        2.00        6.24        2.30
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    SRCPARAM L0001482        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001483        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001484        0.0113636364        2.00        6.24        2.30
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    SRCPARAM L0001487        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001488        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001489        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001490        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001491        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001492        0.0113636364        2.00        6.24        2.30
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    SRCPARAM L0001494        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001495        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001496        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001497        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001498        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001499        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001500        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001501        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001502        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001503        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001504        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001505        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001506        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001507        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001508        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001509        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001510        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001511        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001512        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001513        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001514        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001515        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001516        0.0113636364        2.00        6.24        2.30
    SRCPARAM L0001517        0.0113636364        2.00        6.24        2.30
** ----------------------------------------------------------------

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** WeekDays:
    EMISFACT GRADE            HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT GRADE            HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT GRADE            HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT GRADE            HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT GRADE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GRADE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GRADE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT GRADE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GRADE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT PHASE1C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD1          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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    EMISFACT PHASE2C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT PHASE2C6     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C6     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C6     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C6     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C6     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0001430     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001430     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001430     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001430     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001431     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001431     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001432     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001432     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001433     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001433     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001433     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001433     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001434     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001434     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001434     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001434     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001435     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001435     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001435     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001435     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001436     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001436     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001436     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001436     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001437     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001437     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001437     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001437     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001438      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001438      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001438      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001438      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001439      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001439      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001439      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001439      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001440      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001440      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001440      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001440      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001441      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001441      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001441      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001441      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001442      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001442      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001442      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001442      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001443      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001443      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001443      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001443      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001444      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001444      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001444      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001444      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001445      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001445      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001445      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001445      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001446      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001446      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001446      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001446      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001447      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001447      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001447      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001447      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001448      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001448      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001448      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001448      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001449      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT L0001449      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001449      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT L0001449      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
    EMISFACT L0001450      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001435     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001492      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001494      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001495      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001506      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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** Sunday:
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   EMISFACT L0001466      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001467      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001467      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001468      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001470      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001470      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001471      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001472      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001472      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001475      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001503      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT L0001517     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP GRADE     GRADE
   SRCGROUP PHASE1C1 PHASE1C1
   SRCGROUP PHASE1C2 PHASE1C2
   SRCGROUP PHASE1C3 PHASE1C3
   SRCGROUP PHASE1C4 PHASE1C4
   SRCGROUP PHASE1C5 PHASE1C5
   SRCGROUP PHASE1C6 PHASE1C6
   SRCGROUP PHASE1C7 PHASE1C7
   SRCGROUP PHASE1C8 PHASE1C8
   SRCGROUP BIGGRN    BIGGRN
   SRCGROUP SHORE     SHORE
   SRCGROUP RPD1      RPD1
   SRCGROUP RPD2      RPD2
   SRCGROUP PILE      PILE
   SRCGROUP PHASE2C1 PHASE2C1
   SRCGROUP PHASE2C2 PHASE2C2
   SRCGROUP PHASE2C3 PHASE2C3
   SRCGROUP PHASE2C4 PHASE2C4
   SRCGROUP PHASE2C5 PHASE2C5
   SRCGROUP PHASE2C6 PHASE2C6
   SRCGROUP PHASE2C7 PHASE2C7
   SRCGROUP CONST     L0001430 L0001431 L0001432 L0001433 L0001434 L0001435
   SRCGROUP CONST     L0001436 L0001437 L0001438 L0001439 L0001440 L0001441
   SRCGROUP CONST     L0001442 L0001443 L0001444 L0001445 L0001446 L0001447
   SRCGROUP CONST     L0001448 L0001449 L0001450 L0001451 L0001452 L0001453
   SRCGROUP CONST     L0001454 L0001455 L0001456 L0001457 L0001458 L0001459
   SRCGROUP CONST     L0001460 L0001461 L0001462 L0001463 L0001464 L0001465
   SRCGROUP CONST     L0001466 L0001467 L0001468 L0001469 L0001470 L0001471
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   SRCGROUP CONST     L0001478 L0001479 L0001480 L0001481 L0001482 L0001483
   SRCGROUP CONST     L0001484 L0001485 L0001486 L0001487 L0001488 L0001489
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   SRCGROUP CONST     L0001496 L0001497 L0001498 L0001499 L0001500 L0001501
   SRCGROUP CONST     L0001502 L0001503 L0001504 L0001505 L0001506 L0001507
   SRCGROUP CONST     L0001508 L0001509 L0001510 L0001511 L0001512 L0001513
   SRCGROUP CONST     L0001514 L0001515 L0001516 L0001517
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE  STARTING
    INCLUDED PreCon.ROU
RE  FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME  STARTING
    SURFFILE mission_bay_2008.SFC
    PROFFILE mission_bay_2008.PFL
```

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    SURFDATA 23234 2008
    UAIRDATA 23230 2008
    PROFBASE 2.0 METERS
ME FINISHED
**
******************************************
** AERMOD Output Pathway
******************************************
**
**
OU STARTING
OU RECTABLE ALLAVE 1
    PLOTFILE 1 GRADE 1ST Plots\GRADE_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C1 1ST Plots\PHASE1C1_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C2 1ST Plots\PHASE1C2_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C3 1ST Plots\PHASE1C3_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C4 1ST Plots\PHASE1C4_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C5 1ST Plots\PHASE1C5_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C6 1ST Plots\PHASE1C6_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C7 1ST Plots\PHASE1C7_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE1C8 1ST Plots\PHASE1C8_1hr_2018-2020EV.PLT
    PLOTFILE 1 BIGGRN 1ST Plots\BIGGRN_1hr_2018-2020EV.PLT
    PLOTFILE 1 SHORE 1ST Plots\SHORE_1hr_2018-2020EV.PLT
    PLOTFILE 1 RPD1 1ST Plots\RPD1_1hr_2018-2020EV.PLT
    PLOTFILE 1 RPD2 1ST Plots\RPD2_1hr_2018-2020EV.PLT
    PLOTFILE 1 PILE 1ST Plots\PILE_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C1 1ST Plots\PHASE2C1_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C2 1ST Plots\PHASE2C2_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C3 1ST Plots\PHASE2C3_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C4 1ST Plots\PHASE2C4_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C5 1ST Plots\PHASE2C5_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C6 1ST Plots\PHASE2C6_1hr_2018-2020EV.PLT
    PLOTFILE 1 PHASE2C7 1ST Plots\PHASE2C7_1hr_2018-2020EV.PLT
    PLOTFILE 1 CONST 1ST Plots\CONST_1hr_2018-2020EV.PLT
    PLOTFILE PERIOD GRADE Plots\GRADE_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C1 Plots\PHASE1C1_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C2 Plots\PHASE1C2_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C3 Plots\PHASE1C3_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C4 Plots\PHASE1C4_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C5 Plots\PHASE1C5_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C6 Plots\PHASE1C6_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C7 Plots\PHASE1C7_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE1C8 Plots\PHASE1C8_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD BIGGRN Plots\BIGGRN_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD SHORE Plots\SHORE_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD RPD1 Plots\RPD1_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD RPD2 Plots\RPD2_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PILE Plots\PILE_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C1 Plots\PHASE2C1_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C2 Plots\PHASE2C2_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C3 Plots\PHASE2C3_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C4 Plots\PHASE2C4_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C5 Plots\PHASE2C5_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C6 Plots\PHASE2C6_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD PHASE2C7 Plots\PHASE2C7_Ann_2018-2020EV.PLT
    PLOTFILE PERIOD CONST Plots\CONST_Ann_2018-2020EV.PLT
OU FINISHED
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** Project Parameters
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** PROJCTN   CoordinateSystemUTM
** DESCPTN   UTM: Universal Transverse Mercator
** DATUM     North American Datum 1983
** DTMRGN    CONUS
** UNITS     m
** ZONE      10
** ZONEINX   0
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**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE 2021-2022 Existing Receptors - Maximum Commerical Variant Option
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   FLAGPOLE 1.80
   RUNORNOT RUN
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PHASE1C1     AREAPOLY    555026.479   4176281.861        6.096
   LOCATION PHASE1C2     AREAPOLY    555222.916   4176198.157        7.620
   LOCATION PHASE1C3     AREAPOLY    555289.282   4176118.664       12.192
   LOCATION PHASE1C4     AREAPOLY    555229.049   4176203.404        5.182
   LOCATION PHASE1C5     AREAPOLY    555319.797   4176185.976        6.096
   LOCATION PHASE1C6     AREAPOLY    555172.354   4176309.620        4.572
   LOCATION PHASE1C7     AREAPOLY    555097.859   4176300.036        4.572
   LOCATION PHASE1C8     AREAPOLY    555465.541   4176252.551        4.572
   LOCATION BIGGRN       AREAPOLY    555029.810   4176309.841        4.572
   LOCATION SHORE        AREAPOLY    555121.109   4176331.718        4.572
   LOCATION RPD2         AREAPOLY    554918.029   4176546.199       15.180
   LOCATION PILE         AREAPOLY    555036.003   4176394.153        0.000
   LOCATION PHASE2C1     AREAPOLY    555388.531   4176143.749        5.791
   LOCATION PHASE2C2     AREAPOLY    555433.844   4176203.876        5.182
   LOCATION PHASE2C3     AREAPOLY    555354.546   4176254.417        5.182
   LOCATION PHASE2C4     AREAPOLY    555316.578   4176272.940        5.182
   LOCATION PHASE2C5     AREAPOLY    555322.465   4176279.362        4.572
   LOCATION PHASE2C6     AREAPOLY    555398.992   4176311.471        4.572
   LOCATION PHASE2C7     AREAPOLY    555359.658   4176270.532        5.182
   LOCATION BEACH        AREAPOLY    555456.986   4176385.345        4.572
   LOCATION EMGEN1       POINT       555132.289   4176268.496        4.572
   LOCATION EMGEN2       POINT       555244.723   4176214.288        5.182
   LOCATION EMGEN3       POINT       555244.697   4176254.889        4.572
   LOCATION EMGEN5       POINT       555130.892   4176268.960        4.572
   LOCATION EMGEN6       POINT       555246.510   4176214.828        5.182
   LOCATION EMGEN7       POINT       555246.148   4176255.337        4.572
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = CONST
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
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** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 8
** 555339.829, 4176031.731, 18.90, 2.00, 6.24
** 554903.494, 4176341.253, 12.12, 2.00, 6.24
** 554890.980, 4176370.453, 12.52, 2.00, 6.24
** 554890.980, 4176412.167, 12.52, 2.00, 6.24
** 554897.654, 4176446.373, 12.75, 2.00, 6.24
** 554913.506, 4176649.941, 14.38, 2.00, 6.24
** 554849.265, 4176789.267, 10.80, 2.00, 6.24
** 554702.430, 4176896.057, 9.06, 2.00, 6.24
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   LOCATION L0001430      VOLUME      555334.360 4176035.610 18.82
   LOCATION L0001431      VOLUME      555323.423 4176043.369 18.65
   LOCATION L0001432      VOLUME      555312.485 4176051.128 18.48
   LOCATION L0001433      VOLUME      555301.548 4176058.887 18.31
   LOCATION L0001434      VOLUME      555290.610 4176066.645 18.14
   LOCATION L0001435      VOLUME      555279.672 4176074.404 17.97
   LOCATION L0001436      VOLUME      555268.735 4176082.163 17.80
   LOCATION L0001437      VOLUME      555257.797 4176089.922 17.63
   LOCATION L0001438      VOLUME      555246.860 4176097.680 17.46
   LOCATION L0001439      VOLUME      555235.922 4176105.439 17.29
   LOCATION L0001440      VOLUME      555224.985 4176113.198 17.12
   LOCATION L0001441      VOLUME      555214.047 4176120.957 16.95
   LOCATION L0001442      VOLUME      555203.110 4176128.715 16.78
   LOCATION L0001443      VOLUME      555192.172 4176136.474 16.61
   LOCATION L0001444      VOLUME      555181.235 4176144.233 16.44
   LOCATION L0001445      VOLUME      555170.297 4176151.992 16.27
   LOCATION L0001446      VOLUME      555159.359 4176159.750 16.10
   LOCATION L0001447      VOLUME      555148.422 4176167.509 15.93
   LOCATION L0001448      VOLUME      555137.484 4176175.268 15.76
   LOCATION L0001449      VOLUME      555126.547 4176183.027 15.59
   LOCATION L0001450      VOLUME      555115.609 4176190.785 15.42
   LOCATION L0001451      VOLUME      555104.672 4176198.544 15.25
   LOCATION L0001452      VOLUME      555093.734 4176206.303 15.08
   LOCATION L0001453      VOLUME      555082.797 4176214.062 14.91
   LOCATION L0001454      VOLUME      555071.859 4176221.820 14.74
   LOCATION L0001455      VOLUME      555060.922 4176229.579 14.57
   LOCATION L0001456      VOLUME      555049.984 4176237.338 14.40
   LOCATION L0001457      VOLUME      555039.046 4176245.096 14.23
   LOCATION L0001458      VOLUME      555028.109 4176252.855 14.06
   LOCATION L0001459      VOLUME      555017.171 4176260.614 13.89
   LOCATION L0001460      VOLUME      555006.234 4176268.373 13.72
   LOCATION L0001461      VOLUME      554995.296 4176276.131 13.55
   LOCATION L0001462      VOLUME      554984.359 4176283.890 13.38
   LOCATION L0001463      VOLUME      554973.421 4176291.649 13.21
   LOCATION L0001464      VOLUME      554962.484 4176299.408 13.04
   LOCATION L0001465      VOLUME      554951.546 4176307.166 12.87
   LOCATION L0001466      VOLUME      554940.608 4176314.925 12.70
   LOCATION L0001467      VOLUME      554929.671 4176322.684 12.53
   LOCATION L0001468      VOLUME      554918.733 4176330.443 12.36
   LOCATION L0001469      VOLUME      554907.796 4176338.201 12.19
   LOCATION L0001470      VOLUME      554900.289 4176348.731 12.22
   LOCATION L0001471      VOLUME      554895.007 4176361.057 12.39
   LOCATION L0001472      VOLUME      554890.980 4176373.640 12.52
   LOCATION L0001473      VOLUME      554890.980 4176387.050 12.52
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   LOCATION L0001474     VOLUME     554890.980 4176400.460 12.52
   LOCATION L0001475     VOLUME     554891.306 4176413.839 12.53
   LOCATION L0001476     VOLUME     554893.874 4176427.000 12.62
   LOCATION L0001477     VOLUME     554896.442 4176440.162 12.71
   LOCATION L0001478     VOLUME     554898.204 4176453.434 12.81
   LOCATION L0001479     VOLUME     554899.245 4176466.803 12.91
   LOCATION L0001480     VOLUME     554900.286 4176480.173 13.02
   LOCATION L0001481     VOLUME     554901.327 4176493.542 13.13
   LOCATION L0001482     VOLUME     554902.368 4176506.912 13.23
   LOCATION L0001483     VOLUME     554903.409 4176520.281 13.34
   LOCATION L0001484     VOLUME     554904.450 4176533.651 13.45
   LOCATION L0001485     VOLUME     554905.492 4176547.021 13.56
   LOCATION L0001486     VOLUME     554906.533 4176560.390 13.66
   LOCATION L0001487     VOLUME     554907.574 4176573.760 13.77
   LOCATION L0001488     VOLUME     554908.615 4176587.129 13.88
   LOCATION L0001489     VOLUME     554909.656 4176600.499 13.98
   LOCATION L0001490     VOLUME     554910.697 4176613.868 14.09
   LOCATION L0001491     VOLUME     554911.738 4176627.238 14.20
   LOCATION L0001492     VOLUME     554912.779 4176640.607 14.31
   LOCATION L0001493     VOLUME     554911.811 4176653.617 14.29
   LOCATION L0001494     VOLUME     554906.196 4176665.795 13.97
   LOCATION L0001495     VOLUME     554900.581 4176677.973 13.66
   LOCATION L0001496     VOLUME     554894.966 4176690.151 13.35
   LOCATION L0001497     VOLUME     554889.351 4176702.328 13.03
   LOCATION L0001498     VOLUME     554883.736 4176714.506 12.72
   LOCATION L0001499     VOLUME     554878.121 4176726.684 12.41
   LOCATION L0001500     VOLUME     554872.506 4176738.862 12.10
   LOCATION L0001501     VOLUME     554866.891 4176751.040 11.78
   LOCATION L0001502     VOLUME     554861.276 4176763.218 11.47
   LOCATION L0001503     VOLUME     554855.661 4176775.395 11.16
   LOCATION L0001504     VOLUME     554850.046 4176787.573 10.84
   LOCATION L0001505     VOLUME     554839.928 4176796.057 10.69
   LOCATION L0001506     VOLUME     554829.083 4176803.945 10.56
   LOCATION L0001507     VOLUME     554818.238 4176811.832 10.43
   LOCATION L0001508     VOLUME     554807.393 4176819.720 10.30
   LOCATION L0001509     VOLUME     554796.548 4176827.607 10.18
   LOCATION L0001510     VOLUME     554785.703 4176835.495 10.05
   LOCATION L0001511     VOLUME     554774.858 4176843.382 9.92
   LOCATION L0001512     VOLUME     554764.012 4176851.269 9.79
   LOCATION L0001513     VOLUME     554753.167 4176859.157 9.66
   LOCATION L0001514     VOLUME     554742.322 4176867.044 9.53
   LOCATION L0001515     VOLUME     554731.477 4176874.932 9.40
   LOCATION L0001516     VOLUME     554720.632 4176882.819 9.28
   LOCATION L0001517     VOLUME     554709.787 4176890.707 9.15
** End of LINE VOLUME Source ID = CONST

** Source Parameters **
   SRCPARAM PHASE1C1      0.00015124     2.000         30     1.400
   AREAVERT PHASE1C1      555026.479 4176281.861 555018.677 4176270.511
   AREAVERT PHASE1C1      555037.829 4176257.034 555054.854 4176282.570
   AREAVERT PHASE1C1      555074.861 4176269.520 555058.346 4176243.383
   AREAVERT PHASE1C1      555093.159 4176218.728 555113.811 4176250.493
   AREAVERT PHASE1C1      555133.896 4176235.916 555130.435 4176228.348
   AREAVERT PHASE1C1      555141.081 4176222.616 555123.661 4176198.157
   AREAVERT PHASE1C1      555135.011 4176189.645 555152.744 4176214.472
   AREAVERT PHASE1C1      555186.084 4176189.645 555198.852 4176208.798
   AREAVERT PHASE1C1      555180.409 4176228.659 555186.111 4176237.453
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AREAVERT PHASE1C1      555180.127 4176244.292 555184.893 4176249.767
AREAVERT PHASE1C1      555160.948 4176259.925 555152.717 4176248.321
AREAVERT PHASE1C1      555147.779 4176249.512 555153.454 4176262.708
AREAVERT PHASE1C1      555133.792 4176267.728 555132.628 4176266.764
AREAVERT PHASE1C1      555094.523 4176277.886 555094.751 4176280.015
AREAVERT PHASE1C1      555057.518 4176286.854 555045.150 4176285.034
SRCPARAM PHASE1C2      0.000680921    2.000      12    1.400
AREAVERT PHASE1C2      555222.916 4176198.157 555191.049 4176151.340
AREAVERT PHASE1C2      555208.329 4176145.465 555205.237 4176141.409
AREAVERT PHASE1C2      555213.328 4176137.084 555214.394 4176138.342
AREAVERT PHASE1C2      555224.744 4176130.302 555235.233 4176146.455
AREAVERT PHASE1C2      555224.699 4176152.775 555232.430 4176164.373
AREAVERT PHASE1C2      555224.699 4176168.921 555235.387 4176184.612
SRCPARAM PHASE1C3       0.00195    2.000       4    1.400
AREAVERT PHASE1C3      555289.282 4176118.664 555271.089 4176092.285
AREAVERT PHASE1C3      555284.734 4176083.871 555302.926 4176109.795
SRCPARAM PHASE1C4      0.0002218    2.000      14    1.400
AREAVERT PHASE1C4      555229.049 4176203.404 555242.181 4176183.279
AREAVERT PHASE1C4      555258.307 4176191.930 555264.420 4176186.554
AREAVERT PHASE1C4      555248.350 4176155.764 555227.822 4176124.973
AREAVERT PHASE1C4      555251.818 4176109.148 555276.297 4176145.271
AREAVERT PHASE1C4      555304.973 4176200.835 555290.762 4176215.243
AREAVERT PHASE1C4      555288.478 4176213.351 555282.378 4176220.851
AREAVERT PHASE1C4      555284.655 4176222.085 555273.784 4176232.333
SRCPARAM PHASE1C5      0.0001763    2.000      12    1.400
AREAVERT PHASE1C5      555319.797 4176185.976 555279.074 4176130.166
AREAVERT PHASE1C5      555304.914 4176111.573 555305.843 4176113.179
AREAVERT PHASE1C5      555326.772 4176099.287 555326.578 4176095.427
AREAVERT PHASE1C5      555354.402 4176076.939 555389.225 4176116.433
AREAVERT PHASE1C5      555368.205 4176137.487 555365.016 4176137.225
AREAVERT PHASE1C5      555339.890 4176164.514 555339.228 4176166.513
SRCPARAM PHASE1C6      0.00130497    2.000       4    1.400
AREAVERT PHASE1C6      555172.354 4176309.620 555171.918 4176276.511
AREAVERT PHASE1C6      555190.651 4176270.412 555191.086 4176319.204
SRCPARAM PHASE1C7       0.00136    2.000       3    1.400
AREAVERT PHASE1C7      555097.859 4176300.036 555158.413 4176281.303
AREAVERT PHASE1C7      555157.978 4176305.699
SRCPARAM PHASE1C8       0.00174    2.000       4    1.400
AREAVERT PHASE1C8      555465.541 4176252.551 555485.145 4176238.610
AREAVERT PHASE1C8      555499.086 4176258.650 555478.610 4176271.719
SRCPARAM BIGGRN        0.00004222    2.000      37    1.400
AREAVERT BIGGRN        555029.810 4176309.841 555034.775 4176307.712
AREAVERT BIGGRN        555056.766 4176311.264 555078.757 4176306.693
AREAVERT BIGGRN        555095.227 4176299.684 555156.375 4176304.494
AREAVERT BIGGRN        555180.498 4176313.561 555190.688 4176317.728
AREAVERT BIGGRN        555190.871 4176268.922 555220.481 4176229.149
AREAVERT BIGGRN        555269.729 4176261.528 555284.861 4176248.543
AREAVERT BIGGRN        555302.600 4176258.155 555325.892 4176296.823
AREAVERT BIGGRN        555352.037 4176321.809 555368.667 4176338.301
AREAVERT BIGGRN        555414.595 4176354.559 555388.540 4176371.676
AREAVERT BIGGRN        555310.070 4176426.231 555283.832 4176397.478
AREAVERT BIGGRN        555250.933 4176389.866 555224.117 4176346.599
AREAVERT BIGGRN        555183.703 4176317.662 555156.791 4176308.220
AREAVERT BIGGRN        555136.196 4176304.148 555094.898 4176303.969
AREAVERT BIGGRN        555100.065 4176311.148 555111.259 4176316.378
AREAVERT BIGGRN        555120.407 4176311.309 555130.908 4176328.864
AREAVERT BIGGRN        555118.162 4176329.858 555096.816 4176337.700
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     AREAVERT BIGGRN          555073.703 4176314.637 555065.264 4176320.737
     AREAVERT BIGGRN          555066.633 4176329.550 555053.251 4176320.710
     AREAVERT BIGGRN          555041.488 4176328.551
     SRCPARAM SHORE           0.00004573    2.000       34     1.400
     AREAVERT SHORE           555121.109 4176331.718 555131.497 4176329.200
     AREAVERT SHORE           555120.795 4176311.258 555111.666 4176315.979
     AREAVERT SHORE           555100.019 4176310.943 555095.298 4176304.332
     AREAVERT SHORE           555139.051 4176304.962 555181.231 4176316.923
     AREAVERT SHORE           555223.726 4176346.512 555250.797 4176390.266
     AREAVERT SHORE           555282.589 4176396.876 555309.345 4176427.095
     AREAVERT SHORE           555414.165 4176355.326 555448.161 4176368.232
     AREAVERT SHORE           555457.919 4176384.915 555450.364 4176391.525
     AREAVERT SHORE           555439.977 4176392.784 555396.223 4176437.797
     AREAVERT SHORE           555386.780 4176442.519 555364.116 4176479.662
     AREAVERT SHORE           555349.321 4176492.568 555338.619 4176505.789
     AREAVERT SHORE           555318.473 4176514.287 555275.664 4176487.217
     AREAVERT SHORE           555260.869 4176467.071 555248.593 4176442.204
     AREAVERT SHORE           555225.300 4176423.317 555204.210 4176394.043
     AREAVERT SHORE           555190.045 4176373.583 555181.546 4176368.232
     AREAVERT SHORE           555166.122 4176353.437 555151.957 4176344.624
     AREAVERT SHORE           555139.051 4176340.217 555128.979 4176338.013
     SRCPARAM RPD2            0.000033686    2.000       35     1.400
     AREAVERT RPD2            554918.029 4176546.199 554906.753 4176440.612
     AREAVERT RPD2            554981.586 4176389.356 554993.375 4176376.542
     AREAVERT RPD2            555012.339 4176378.080 555011.314 4176372.442
     AREAVERT RPD2            555012.339 4176369.879 555015.927 4176368.854
     AREAVERT RPD2            555025.153 4176383.206 555025.153 4176389.356
     AREAVERT RPD2            555023.616 4176392.944 555039.505 4176411.909
     AREAVERT RPD2            555047.706 4176416.009 555054.882 4176433.436
     AREAVERT RPD2            555058.470 4176449.326 555067.696 4176465.215
     AREAVERT RPD2            555076.922 4176479.054 555075.897 4176499.044
     AREAVERT RPD2            555079.484 4176506.732 555079.997 4176524.159
     AREAVERT RPD2            555053.656 4176549.977 555070.381 4176567.642
     AREAVERT RPD2            555077.770 4176587.571 555066.158 4176604.118
     AREAVERT RPD2            555063.595 4176622.570 555054.882 4176633.334
     AREAVERT RPD2            555032.329 4176641.535 555015.415 4176631.283
     AREAVERT RPD2            555006.701 4176620.007 554994.912 4176608.218
     AREAVERT RPD2            554986.199 4176604.118 554961.084 4176568.239
     AREAVERT RPD2            554957.496 4176547.224 554941.094 4176532.872
     AREAVERT RPD2            554933.918 4176533.898
     SRCPARAM PILE           0.000031517    2.000       19     1.400
     AREAVERT PILE           555036.003 4176394.153 555071.892 4176358.264
     AREAVERT PILE           555109.450 4176342.406 555136.159 4176344.075
     AREAVERT PILE           555158.694 4176367.445 555172.048 4176399.996
     AREAVERT PILE           555143.670 4176463.428 555163.702 4176542.718
     AREAVERT PILE           555202.929 4176646.212 555161.198 4176702.133
     AREAVERT PILE           555067.719 4176629.520 555086.915 4176589.457
     AREAVERT PILE           555078.569 4176571.930 555061.423 4176547.953
     AREAVERT PILE           555077.734 4176536.875 555085.246 4176496.813
     AREAVERT PILE           555081.908 4176481.790 555064.380 4176442.562
     AREAVERT PILE           555052.695 4176411.680
     SRCPARAM PHASE2C1       0.00076988    2.000        6     1.400
     AREAVERT PHASE2C1       555388.531 4176143.749 555402.038 4176131.985
     AREAVERT PHASE2C1       555419.901 4176159.870 555443.865 4176189.062
     AREAVERT PHASE2C1       555429.051 4176200.826 555407.702 4176174.684
     SRCPARAM PHASE2C2        0.001207    2.000        4     1.400
     AREAVERT PHASE2C2       555433.844 4176203.876 555446.044 4176196.033
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     AREAVERT PHASE2C2     555475.672 4176243.525 555462.165 4176250.932
     SRCPARAM PHASE2C3     0.0003208     2.000        15      1.400
     AREAVERT PHASE2C3     555354.546 4176254.417 555332.633 4176202.834
     AREAVERT PHASE2C3     555346.815 4176191.596 555347.885 4176193.737
     AREAVERT PHASE2C3     555368.221 4176180.893 555366.348 4176179.287
     AREAVERT PHASE2C3     555384.008 4176170.190 555420.399 4176215.946
     AREAVERT PHASE2C3     555404.611 4176227.451 555381.065 4176240.295
     AREAVERT PHASE2C3     555373.037 4176223.973 555393.908 4176212.467
     AREAVERT PHASE2C3     555380.529 4176195.610 555354.574 4176209.256
     AREAVERT PHASE2C3     555371.699 4176246.717
     SRCPARAM PHASE2C4     0.00096256    2.000         6      1.400
     AREAVERT PHASE2C4     555316.578 4176272.940 555289.285 4176245.379
     AREAVERT PHASE2C4     555313.100 4176219.959 555327.816 4176232.000
     AREAVERT PHASE2C4     555314.438 4176245.647 555329.690 4176260.631
     SRCPARAM PHASE2C5     0.0008214     2.000         8      1.400
     AREAVERT PHASE2C5     555322.465 4176279.362 555338.252 4176268.391
     AREAVERT PHASE2C5     555355.377 4176294.881 555361.264 4176298.895
     AREAVERT PHASE2C5     555379.727 4176316.823 555366.883 4176330.737
     AREAVERT PHASE2C5     555348.688 4176312.006 555340.660 4176304.782
     SRCPARAM PHASE2C6     0.00092047    2.000        12      1.400
     AREAVERT PHASE2C6     555398.992 4176311.471 555408.625 4176301.571
     AREAVERT PHASE2C6     555417.188 4176297.022 555437.256 4176286.051
     AREAVERT PHASE2C6     555439.664 4176283.910 555461.873 4176268.123
     AREAVERT PHASE2C6     555469.365 4176280.699 555447.424 4176295.951
     AREAVERT PHASE2C6     555444.213 4176298.627 555423.877 4176309.330
     AREAVERT PHASE2C6     555419.328 4176312.809 555408.893 4176321.907
     SRCPARAM PHASE2C7     0.0004603     2.000        12      1.400
     AREAVERT PHASE2C7     555359.658 4176270.532 555389.092 4176301.035
     AREAVERT PHASE2C7     555401.133 4176288.994 555407.287 4176282.305
     AREAVERT PHASE2C7     555427.356 4176268.658 555444.213 4176261.166
     AREAVERT PHASE2C7     555426.553 4176225.578 555409.963 4176233.873
     AREAVERT PHASE2C7     555419.328 4176252.604 555396.584 4176267.588
     AREAVERT PHASE2C7     555388.557 4176272.940 555373.572 4176256.082
     SRCPARAM BEACH       0.00019266    2.000        17      1.400
     AREAVERT BEACH       555456.986 4176385.345 555447.940 4176369.666
     AREAVERT BEACH       555449.749 4176366.048 555432.864 4176355.193
     AREAVERT BEACH       555422.009 4176344.338 555431.055 4176326.850
     AREAVERT BEACH       555456.986 4176306.346 555493.169 4176309.965
     AREAVERT BEACH       555517.894 4176303.934 555531.764 4176294.285
     AREAVERT BEACH       555548.046 4176317.201 555527.542 4176332.277
     AREAVERT BEACH       555514.878 4176334.689 555501.008 4176349.765
     AREAVERT BEACH       555487.138 4176358.811 555470.253 4176367.857
     AREAVERT BEACH       555459.398 4176381.124
     SRCPARAM EMGEN1          1.0    22.641    739.817   45.30000      0.183
     SRCPARAM EMGEN2          1.0    23.860    739.817   45.30000      0.183
     SRCPARAM EMGEN3          1.0     5.572    739.817   45.30000      0.183
     SRCPARAM EMGEN5          1.0    22.641    739.817   45.30000      0.183
     SRCPARAM EMGEN6          1.0    23.860    739.817   45.30000      0.183
     SRCPARAM EMGEN7          1.0     5.572    739.817   45.30000      0.183
**  LINE VOLUME Source ID = CONST
     SRCPARAM L0001430     0.0113636364     2.00       6.24       2.30
     SRCPARAM L0001431     0.0113636364     2.00       6.24       2.30
     SRCPARAM L0001432     0.0113636364     2.00       6.24       2.30
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     SRCPARAM L0001434     0.0113636364     2.00       6.24       2.30
     SRCPARAM L0001435     0.0113636364     2.00       6.24       2.30
     SRCPARAM L0001436     0.0113636364     2.00       6.24       2.30
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SRCPARAM L0001437    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001438    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001439    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001440    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001441    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001442    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001443    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001444    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001445    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001446    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001447    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001448    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001449    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001450    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001451    0.0113636364    2.00    6.24    2.30
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SRCPARAM L0001453    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001454    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001455    0.0113636364    2.00    6.24    2.30
SRCPARAM L0001456    0.0113636364    2.00    6.24    2.30
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SRCPARAM L0001468    0.0113636364    2.00    6.24    2.30
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SRCPARAM L0001493    0.0113636364    2.00    6.24    2.30
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    SRCPARAM L0001503    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001504    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001505    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001506    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001507    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001508    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001509    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001510    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001511    0.0113636364    2.00    6.24    2.30
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    SRCPARAM L0001515    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001516    0.0113636364    2.00    6.24    2.30
    SRCPARAM L0001517    0.0113636364    2.00    6.24    2.30
**  ------------------------------------------------------------------
** Building Downwash **
    BUILDHGT EMGEN1      21.64    21.64    21.64    22.86    22.86    22.86
    BUILDHGT EMGEN1      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN1      42.67    45.72    45.72    45.72    45.72    45.72
    BUILDHGT EMGEN1      21.64    21.64    21.64    22.86    22.86    22.86
    BUILDHGT EMGEN1      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN1      46.63    46.63    46.63    44.20    45.72    45.72

    BUILDHGT EMGEN2      44.20    44.20    44.20    44.20    44.20    44.20
    BUILDHGT EMGEN2      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN2      42.67    22.86    22.86    22.86    42.67    42.67
    BUILDHGT EMGEN2      44.20    44.20    44.20    44.20    44.20    44.20
    BUILDHGT EMGEN2      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN2      42.67    22.86    22.86    22.86    42.67    42.67

    BUILDHGT EMGEN3      44.20    44.20    44.20     4.57    42.67    42.67
    BUILDHGT EMGEN3      42.67    42.67    42.67    42.67    22.86    22.86
    BUILDHGT EMGEN3      22.86    22.86    22.86    22.86    22.86    42.67
    BUILDHGT EMGEN3      22.86    22.86    22.86     4.57    42.67    42.67
    BUILDHGT EMGEN3      42.67    42.67    42.67    42.67    22.86    22.86
    BUILDHGT EMGEN3      22.86    22.86    22.86    22.86    22.86    42.67

    BUILDHGT EMGEN5      21.64    21.64    21.64    22.86    22.86    22.86
    BUILDHGT EMGEN5      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN5      42.67    45.72    45.72    45.72    45.72    45.72
    BUILDHGT EMGEN5      21.64    21.64    21.64    22.86    22.86    22.86
    BUILDHGT EMGEN5      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN5      46.63    46.63    46.63    44.20    45.72    45.72

    BUILDHGT EMGEN6      44.20    44.20    44.20    44.20    44.20    44.20
    BUILDHGT EMGEN6      22.86    42.67    42.67    42.67    42.67    42.67
    BUILDHGT EMGEN6      42.67    22.86    22.86    22.86    22.86    42.67
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BUILDHGT  EMGEN6       44.20     44.20     44.20     44.20     44.20     44.20
BUILDHGT  EMGEN6       22.86     42.67     42.67     42.67     42.67     42.67
BUILDHGT  EMGEN6       42.67     22.86     22.86     22.86     22.86     42.67

BUILDHGT  EMGEN7       44.20     44.20     44.20      4.57     42.67     42.67
BUILDHGT  EMGEN7       42.67     42.67     42.67     42.67     22.86     22.86
BUILDHGT  EMGEN7       22.86     22.86     22.86     22.86     22.86     42.67
BUILDHGT  EMGEN7       22.86     22.86     22.86      4.57     42.67     42.67
BUILDHGT  EMGEN7       42.67     42.67     42.67     42.67     21.64     22.86
BUILDHGT  EMGEN7       22.86     22.86     22.86     22.86     22.86     42.67

BUILDWID  EMGEN1       61.11     54.97     47.15     57.89     70.66     81.29
BUILDWID  EMGEN1       92.47     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN1       41.41     40.99     41.90     41.54     39.92     37.08
BUILDWID  EMGEN1       61.11     54.97     47.15     57.89     70.66     81.29
BUILDWID  EMGEN1       92.47     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN1       39.59     41.42     42.00     43.61     39.92     37.08

BUILDWID  EMGEN2       39.19     35.06     29.87     29.79     34.41     37.97
BUILDWID  EMGEN2       69.02     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN2       41.41    119.09    123.48    124.12     42.68     42.68
BUILDWID  EMGEN2       39.19     35.06     29.87     29.79     34.41     37.97
BUILDWID  EMGEN2       69.02     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN2       41.41    119.09     34.50     34.23     42.68     42.68

BUILDWID  EMGEN3       39.19     35.06     29.87      7.68     35.66     40.43
BUILDWID  EMGEN3       43.98     46.19     46.99     46.37    110.39    112.91
BUILDWID  EMGEN3      115.86    119.09    123.48    124.12    120.98     42.72
BUILDWID  EMGEN3      103.89     90.45     74.35      7.68     35.66     40.43
BUILDWID  EMGEN3       43.98     46.19     46.99     46.37    110.39    112.91
BUILDWID  EMGEN3      115.86    119.09    123.48    124.12    120.98     42.72

BUILDWID  EMGEN5       61.11     54.97     47.15     57.89     70.66     81.29
BUILDWID  EMGEN5       92.47     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN5       41.41     40.99     41.90     41.54     39.92     37.08
BUILDWID  EMGEN5       61.11     54.97     47.15     57.89     70.66     81.29
BUILDWID  EMGEN5       92.47     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN5       39.59     41.42     42.00     43.55     39.92     37.08

BUILDWID  EMGEN6       39.19     35.06     29.87     29.79     34.41     37.97
BUILDWID  EMGEN6       69.02     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN6       41.41    119.09    123.48    124.12    120.98     42.74
BUILDWID  EMGEN6       39.19     35.06     29.87     29.79     34.41     37.97
BUILDWID  EMGEN6       69.02     46.19     46.99     46.37     44.33     42.69
BUILDWID  EMGEN6       41.41    119.09     34.50     34.23     32.92     42.74

BUILDWID  EMGEN7       39.19     35.06     29.87      7.68     35.66     40.43
BUILDWID  EMGEN7       43.98     46.19     46.99     46.37    109.21    112.91
BUILDWID  EMGEN7      115.86    119.09    123.48    124.12    120.98     42.72
BUILDWID  EMGEN7      103.89     90.45     74.35      7.68     35.66     40.43
BUILDWID  EMGEN7       43.98     46.19     46.99     46.37    109.67    112.91
BUILDWID  EMGEN7      115.86    119.09    123.48    124.12    120.98     42.72

BUILDLEN  EMGEN1       52.59     50.35     51.77     97.94     89.85     81.61
BUILDLEN  EMGEN1       70.89     39.92     38.80     37.03     34.14     30.21
BUILDLEN  EMGEN1       29.81     26.57     31.07     34.63     37.14     38.52
BUILDLEN  EMGEN1       52.59     50.35     51.77     97.94     89.85     81.61
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BUILDLEN EMGEN1      70.89    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN1      20.36    24.63    28.15    40.38    37.14    38.52

BUILDLEN EMGEN2      40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN2     124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN2      29.81    58.34    54.10    69.02    41.57    41.49
BUILDLEN EMGEN2      40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN2     124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN2      29.81    58.34    27.03    30.17    41.57    41.49

BUILDLEN EMGEN3      40.15    37.84    37.35     7.76    40.99    41.90
BUILDLEN EMGEN3      41.54    39.92    38.80    37.03    90.45    74.35
BUILDLEN EMGEN3      63.58    58.34    54.10    69.02    83.51    41.49
BUILDLEN EMGEN3     104.51   110.39   112.91     7.76    40.99    41.90
BUILDLEN EMGEN3      41.54    39.92    38.80    37.03    90.45    74.35
BUILDLEN EMGEN3      63.58    58.34    54.10    69.02    83.51    41.49

BUILDLEN EMGEN5      52.59    50.35    51.77    97.94    89.85    81.61
BUILDLEN EMGEN5      70.89    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN5      29.81    26.57    31.07    34.63    37.14    38.52
BUILDLEN EMGEN5      52.59    50.35    51.77    97.94    89.85    81.61
BUILDLEN EMGEN5      70.89    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN5      20.36    24.63    28.15    40.38    37.14    38.52

BUILDLEN EMGEN6      40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN6     124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN6      29.81    58.34    54.10    69.02    83.51    41.49
BUILDLEN EMGEN6      40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN6     124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN6      29.81    58.34    27.03    30.17    32.40    41.49

BUILDLEN EMGEN7      40.15    37.84    37.35     7.76    40.99    41.90
BUILDLEN EMGEN7      41.54    39.92    38.80    37.03    37.32    74.35
BUILDLEN EMGEN7      63.58    58.34    54.10    69.02    83.51    41.49
BUILDLEN EMGEN7     104.51   110.39   112.91     7.76    40.99    41.90
BUILDLEN EMGEN7      41.54    39.92    38.80    37.03   121.85    74.35
BUILDLEN EMGEN7      63.58    58.34    54.10    69.02    83.51    41.49

XBADJ    EMGEN1     -47.54   -51.45   -53.79   -22.12   -13.00    -6.06
XBADJ    EMGEN1       1.06     8.16    15.00    21.39    27.13    32.04
XBADJ    EMGEN1      33.01    30.04    26.16    21.48    16.15    10.33
XBADJ    EMGEN1      -5.05     1.09     2.02   -75.82   -76.85   -75.55
XBADJ    EMGEN1     -71.96   -48.07   -53.80   -58.42   -61.27   -62.25
XBADJ    EMGEN1    -137.38  -143.28  -144.82  -151.53   -53.29   -48.85

XBADJ    EMGEN2     -81.78   -83.55   -82.79   -83.37   -82.21   -78.56
XBADJ    EMGEN2     -72.53   -93.15   -97.43   -98.75   -97.06   -92.43
XBADJ    EMGEN2     -87.96    -1.41    -0.95    -6.88    29.34    36.03
XBADJ    EMGEN2      41.63    45.72    45.44    43.78    40.79    35.46
XBADJ    EMGEN2     -51.59    53.24    58.63    61.71    62.92    62.22
XBADJ    EMGEN2      58.16   -56.93  -132.50  -135.70   -70.91   -77.52

XBADJ    EMGEN3    -121.76  -121.70  -117.94    -5.55   -90.36   -96.60
XBADJ    EMGEN3     -99.91  -100.18   -97.41   -91.68   -15.23     5.19
XBADJ    EMGEN3      21.51    29.70    34.22    31.28    27.38    76.63
XBADJ    EMGEN3      17.25    11.31     5.03    -2.21    49.37    54.70
XBADJ    EMGEN3      58.37    60.27    58.61    54.64   -75.23   -79.55
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     XBADJ      EMGEN3         -85.09    -88.04    -88.32   -100.29   -110.89   -118.12

     XBADJ      EMGEN5         -47.75    -51.40    -53.49    -21.57    -12.22     -5.08
     XBADJ      EMGEN5           2.22      9.45     16.40     22.85     28.60     33.48
     XBADJ      EMGEN5          34.38     31.29     27.25     22.39     16.85     10.79
     XBADJ      EMGEN5          -4.84      1.05      1.72    -76.37    -77.63    -76.54
     XBADJ      EMGEN5         -73.12    -49.37    -55.20    -59.88    -62.74    -63.69
     XBADJ      EMGEN5        -138.75   -144.53   -145.92   -152.44    -53.99    -49.31

     XBADJ      EMGEN6         -82.62    -84.67    -84.15    -84.93    -83.93    -80.38
     XBADJ      EMGEN6         -74.39    -95.01    -99.22   -100.42    -98.56    -93.71
     XBADJ      EMGEN6         -88.99     -2.15     -1.38     -6.99    -12.38     36.57
     XBADJ      EMGEN6          42.47     46.84     46.80     45.34     42.51     37.28
     XBADJ      EMGEN6         -49.72     55.09     60.42     63.38     64.42     63.50
     XBADJ      EMGEN6          59.18    -56.19   -132.07   -135.60   -135.00    -78.06

     XBADJ      EMGEN7        -122.45   -122.62   -119.05     -6.83    -91.76    -98.09
     XBADJ      EMGEN7        -101.43   -101.69    -98.86    -93.03    -87.54      4.16
     XBADJ      EMGEN7          20.69     29.11     33.88     31.20     27.58     77.08
     XBADJ      EMGEN7          17.94     12.23      6.14     -0.94     50.77     56.18
     XBADJ      EMGEN7          59.89     61.77     60.06     55.99   -208.19    -78.52
     XBADJ      EMGEN7         -84.27    -87.46    -87.99   -100.22   -111.08   -118.57

     YBADJ      EMGEN1          36.12     32.94     28.76    -33.87    -30.37    -25.95
     YBADJ      EMGEN1         -19.22    -39.24    -33.82    -27.38    -20.10    -11.34
     YBADJ      EMGEN1          -1.41      7.50     14.89     21.83     28.11     33.54
     YBADJ      EMGEN1         -36.12    -32.94    -28.76     33.87     30.37     25.95
     YBADJ      EMGEN1          19.22     39.24     33.82     27.38     20.10     11.34
     YBADJ      EMGEN1          32.83     10.22    -12.70    -36.64    -28.11    -33.54

     YBADJ      EMGEN2          22.66     11.60      0.19    -10.95    -22.06    -32.49
     YBADJ      EMGEN2         -27.63     33.67     20.38      6.48     -7.61    -20.61
     YBADJ      EMGEN2         -32.16    -22.67    -16.82    -10.47    -42.39    -33.02
     YBADJ      EMGEN2         -22.66    -11.60     -0.19     10.95     22.06     32.49
     YBADJ      EMGEN2          27.63    -33.67    -20.38     -6.48      7.61     20.61
     YBADJ      EMGEN2          32.16     22.67     19.61     -1.38     42.39     33.02

     YBADJ      EMGEN3          15.59     -2.31    -20.13     -3.82     34.81     21.62
     YBADJ      EMGEN3           7.77     -6.32    -20.22    -33.50    -66.50    -61.48
     YBADJ      EMGEN3         -56.53    -48.75    -37.11    -24.34    -10.82    -33.00
     YBADJ      EMGEN3          16.76     30.00     42.37      3.82    -34.81    -21.62
     YBADJ      EMGEN3          -7.77      6.32     20.22     33.50     66.50     61.48
     YBADJ      EMGEN3          56.53     48.75     37.11     24.34     10.82     33.00

     YBADJ      EMGEN5          34.66     31.47     27.32    -35.24    -31.62    -27.04
     YBADJ      EMGEN5         -20.14    -39.94    -34.28    -27.59    -20.06    -11.04
     YBADJ      EMGEN5          -0.87      8.27     15.87     22.99     29.41     34.94
     YBADJ      EMGEN5         -34.66    -31.47    -27.32     35.24     31.62     27.04
     YBADJ      EMGEN5          20.14     39.94     34.28     27.59     20.06     11.04
     YBADJ      EMGEN5          32.28      9.44    -13.68    -37.80    -29.41    -34.94

     YBADJ      EMGEN6          24.33     13.10      1.47     -9.92    -21.32    -32.07
     YBADJ      EMGEN6         -27.52     33.45     19.84      5.64     -8.73    -21.98
     YBADJ      EMGEN6         -33.72    -24.39    -18.64    -12.33     -5.65    -34.81
     YBADJ      EMGEN6         -24.33    -13.10     -1.47      9.92     21.32     32.07
     YBADJ      EMGEN6          27.52    -33.45    -19.84     -5.64      8.73     21.98
     YBADJ      EMGEN6          33.72     24.39     21.43      0.49    -20.48     34.81
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   YBADJ       EMGEN7            16.94      -1.10     -19.10      -3.00      35.40      21.95
   YBADJ       EMGEN7             7.84      -6.51     -20.67     -34.19     -14.24     -62.60
   YBADJ       EMGEN7           -57.80     -50.15     -38.59     -25.85     -12.33     -34.45
   YBADJ       EMGEN7            15.41      28.79      41.34       3.00     -35.40     -21.95
   YBADJ       EMGEN7            -7.84       6.51      20.67      34.19      44.50      62.60
   YBADJ       EMGEN7            57.80      50.15      38.59      25.85      12.33      34.45

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** WeekDays:
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C1       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C2       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C3       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C3       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT PHASE1C4       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C4       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C4       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C5       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C5       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C5       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C5       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C5       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C6       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C6       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C6       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C6       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C6       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE1C7       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C7       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C7       HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C7       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C7       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE1C8      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE1C8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BIGGRN        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BIGGRN        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SHORE         HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT SHORE         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT RPD2          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT RPD2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PILE          HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PILE          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C1      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C2      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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    EMISFACT PHASE2C3      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C4      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C5      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C6      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PHASE2C7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PHASE2C7      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C7      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
    EMISFACT PHASE2C7      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PHASE2C7     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PHASE2C7     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT BEACH        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BEACH        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BEACH        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BEACH        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT BEACH        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BEACH        HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BEACH        HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT BEACH        HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT BEACH        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BEACH        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BEACH        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT BEACH        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0001430     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001430     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001430     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001430     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001431     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001431     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001432     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001432     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001433     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001433     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001433     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001433     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001434     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001434     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001434     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001434     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001435     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001435     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001435     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001435     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001436     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001436     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001436     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001436     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
   EMISFACT L0001437     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001437     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001437     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0001437     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
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EMISFACT L0001438     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001438     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001438     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001438     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001439     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001439     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001439     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001440     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001440     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001440     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001441     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001441     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001441     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001442     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001442     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001443     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001443     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001443     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001445     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001446     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001447     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001447     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001449     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001450     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001451     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001451     HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001452     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001452     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001452     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001453     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001466     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0001466      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001466      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001467      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001479      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001479      HRDOW 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0001480      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001480      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0001480      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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** Sunday:
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   EMISFACT L0001430     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0001431     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001431     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0001432     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001432      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001433      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001433      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001433      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001446      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001494     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001494     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001495     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001495     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001495     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001495     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001496     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001496     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001496     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001496     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001497     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001497     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001497     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001497     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001498     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001498     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001498     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001498     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001499     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001499     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001499     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001499     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001500     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001500     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001500     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001500     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001501     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0001501     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001501     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001502     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001502     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001502     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001502     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001503     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001503     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0001503     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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      EMISFACT L0001503      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001504      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001504      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001504      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001505      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001505      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001505      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001505      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001506      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001507      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001507      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001507      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001507      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001508      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001508      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001508      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001508      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001509      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001509      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001509      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001509      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001510      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001510      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001510      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001510      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001511      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001511      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001511      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001511      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001512      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001513      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001514      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001515      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001516      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT L0001517      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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    SRCGROUP PHASE1C1 PHASE1C1
    SRCGROUP PHASE1C2 PHASE1C2
    SRCGROUP PHASE1C3 PHASE1C3
    SRCGROUP PHASE1C4 PHASE1C4
    SRCGROUP PHASE1C5 PHASE1C5
    SRCGROUP PHASE1C6 PHASE1C6
    SRCGROUP PHASE1C7 PHASE1C7
    SRCGROUP PHASE1C8 PHASE1C8
    SRCGROUP BIGGRN   BIGGRN
    SRCGROUP SHORE    SHORE
    SRCGROUP RPD2     RPD2
    SRCGROUP PILE     PILE
    SRCGROUP PHASE2C1 PHASE2C1
    SRCGROUP PHASE2C2 PHASE2C2
    SRCGROUP PHASE2C3 PHASE2C3
    SRCGROUP PHASE2C4 PHASE2C4
    SRCGROUP PHASE2C5 PHASE2C5
    SRCGROUP PHASE2C6 PHASE2C6
    SRCGROUP PHASE2C7 PHASE2C7
    SRCGROUP BEACH    BEACH
    SRCGROUP EMGEN1   EMGEN1
    SRCGROUP EMGEN2   EMGEN2
    SRCGROUP EMGEN3   EMGEN3
    SRCGROUP EMGEN5   EMGEN5
    SRCGROUP EMGEN6   EMGEN6
    SRCGROUP EMGEN7   EMGEN7
    SRCGROUP CONST    L0001430 L0001431 L0001432 L0001433 L0001434 L0001435
    SRCGROUP CONST    L0001436 L0001437 L0001438 L0001439 L0001440 L0001441
    SRCGROUP CONST    L0001442 L0001443 L0001444 L0001445 L0001446 L0001447
    SRCGROUP CONST    L0001448 L0001449 L0001450 L0001451 L0001452 L0001453
    SRCGROUP CONST    L0001454 L0001455 L0001456 L0001457 L0001458 L0001459
    SRCGROUP CONST    L0001460 L0001461 L0001462 L0001463 L0001464 L0001465
    SRCGROUP CONST    L0001466 L0001467 L0001468 L0001469 L0001470 L0001471
    SRCGROUP CONST    L0001472 L0001473 L0001474 L0001475 L0001476 L0001477
    SRCGROUP CONST    L0001478 L0001479 L0001480 L0001481 L0001482 L0001483
    SRCGROUP CONST    L0001484 L0001485 L0001486 L0001487 L0001488 L0001489
    SRCGROUP CONST    L0001490 L0001491 L0001492 L0001493 L0001494 L0001495
    SRCGROUP CONST    L0001496 L0001497 L0001498 L0001499 L0001500 L0001501
    SRCGROUP CONST    L0001502 L0001503 L0001504 L0001505 L0001506 L0001507
    SRCGROUP CONST    L0001508 L0001509 L0001510 L0001511 L0001512 L0001513
    SRCGROUP CONST    L0001514 L0001515 L0001516 L0001517
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
    INCLUDED PreCon.ROU
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
```

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**
**
ME STARTING
    SURFFILE mission_bay_2008.SFC
    PROFFILE mission_bay_2008.PFL
    SURFDATA 23234 2008
    UAIRDATA 23230 2008
    PROFBASE 2.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
OU RECTABLE ALLAVE 1
    PLOTFILE 1 PHASE1C1 1ST Plots\PHASE1C1_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C2 1ST Plots\PHASE1C2_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C3 1ST Plots\PHASE1C3_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C4 1ST Plots\PHASE1C4_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C5 1ST Plots\PHASE1C5_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C6 1ST Plots\PHASE1C6_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C7 1ST Plots\PHASE1C7_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE1C8 1ST Plots\PHASE1C8_1hr_2021-2022EV.PLT
    PLOTFILE 1 BIGGRN 1ST Plots\BIGGRN_1hr_2021-2022EV.PLT
    PLOTFILE 1 SHORE 1ST Plots\SHORE_1hr_2021-2022EV.PLT
    PLOTFILE 1 RPD2 1ST Plots\RPD2_1hr_2021-2022EV.PLT
    PLOTFILE 1 PILE 1ST Plots\PILE_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C1 1ST Plots\PHASE2C1_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C2 1ST Plots\PHASE2C2_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C3 1ST Plots\PHASE2C3_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C4 1ST Plots\PHASE2C4_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C5 1ST Plots\PHASE2C5_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C6 1ST Plots\PHASE2C6_1hr_2021-2022EV.PLT
    PLOTFILE 1 PHASE2C7 1ST Plots\PHASE2C7_1hr_2021-2022EV.PLT
    PLOTFILE 1 BEACH 1ST Plots\BEACH_1hr_2021-2022EV.PLT
    PLOTFILE 1 EMGEN1 1ST Plots\EMGEN1_1hr_2021-2022EV.PLT
    PLOTFILE 1 EMGEN2 1ST Plots\EMGEN2_1hr_2021-2022EV.PLT
    PLOTFILE 1 EMGEN3 1ST Plots\EMGEN3_1hr_2021-2022EV.PLT
    PLOTFILE 1 EMGEN5 1ST Plots\EMGEN5_1hr_2021-2022EV.PLT
    PLOTFILE 1 EMGEN6 1ST Plots\EMGEN6_1hr_2021-2022EV.PLT
    PLOTFILE 1 EMGEN7 1ST Plots\EMGEN7_1hr_2021-2022EV.PLT
    PLOTFILE 1 CONST 1ST Plots\CONST_1hr_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C1 Plots\PHASE1C1_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C2 Plots\PHASE1C2_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C3 Plots\PHASE1C3_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C4 Plots\PHASE1C4_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C5 Plots\PHASE1C5_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C6 Plots\PHASE1C6_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C7 Plots\PHASE1C7_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE1C8 Plots\PHASE1C8_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD BIGGRN Plots\BIGGRN_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD SHORE Plots\SHORE_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD RPD2 Plots\RPD2_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PILE Plots\PILE_Ann_2021-2022EV.PLT
    PLOTFILE PERIOD PHASE2C1 Plots\PHASE2C1_Ann_2021-2022EV.PLT
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      PLOTFILE PERIOD PHASE2C2 Plots\PHASE2C2_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD PHASE2C3 Plots\PHASE2C3_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD PHASE2C4 Plots\PHASE2C4_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD PHASE2C5 Plots\PHASE2C5_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD PHASE2C6 Plots\PHASE2C6_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD PHASE2C7 Plots\PHASE2C7_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD CONST Plots\CONST_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD BEACH Plots\BEACH_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD EMGEN1 Plots\EMGEN1_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD EMGEN2 Plots\EMGEN2_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD EMGEN3 Plots\EMGEN3_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD EMGEN5 Plots\EMGEN5_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD EMGEN6 Plots\EMGEN6_Ann_2021-2022EV.PLT
      PLOTFILE PERIOD EMGEN7 Plots\EMGEN7_Ann_2021-2022EV.PLT
OU FINISHED
**
*****************************************
** Project Parameters
*****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
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**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE Operations Existing Receptors – Maximum Commercial Option
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   FLAGPOLE 1.80
   RUNORNOT RUN
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID – Type – X Coord. – Y Coord. **
   LOCATION EMGEN1        POINT      555132.289  4176268.496      4.572
   LOCATION EMGEN2        POINT      555244.723  4176214.288      5.182
   LOCATION EMGEN3        POINT      555244.697  4176254.889      4.572
   LOCATION EMGEN4        POINT      555413.890  4176206.195      5.182
   LOCATION EMGEN5        POINT      555130.892  4176268.960      4.572
   LOCATION EMGEN6        POINT      555246.510  4176214.828      5.182
   LOCATION EMGEN7        POINT      555246.148  4176255.337      4.572
   LOCATION EMGEN8        POINT      555415.054  4176207.595      5.182
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = INNESN
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 554678.517, 4176495.353, 31.97, 2.00, 6.24
** 555496.302, 4175923.596, 19.10, 2.00, 6.24
** ------------------------------------------------------------------
   LOCATION L0000001      VOLUME     554684.012 4176491.511 31.88
   LOCATION L0000002      VOLUME     554695.002 4176483.827 31.71
   LOCATION L0000003      VOLUME     554705.993 4176476.143 31.54
   LOCATION L0000004      VOLUME     554716.983 4176468.459 31.36
   LOCATION L0000005      VOLUME     554727.973 4176460.776 31.19
   LOCATION L0000006      VOLUME     554738.963 4176453.092 31.02
   LOCATION L0000007      VOLUME     554749.954 4176445.408 30.85
   LOCATION L0000008      VOLUME     554760.944 4176437.724 30.67
   LOCATION L0000009      VOLUME     554771.934 4176430.040 30.50
   LOCATION L0000010      VOLUME     554782.925 4176422.356 30.33
   LOCATION L0000011      VOLUME     554793.915 4176414.672 30.15
```

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    LOCATION L0000012     VOLUME     554804.905 4176406.988 29.98
    LOCATION L0000013     VOLUME     554815.895 4176399.304 29.81
    LOCATION L0000014     VOLUME     554826.886 4176391.621 29.64
    LOCATION L0000015     VOLUME     554837.876 4176383.937 29.46
    LOCATION L0000016     VOLUME     554848.866 4176376.253 29.29
    LOCATION L0000017     VOLUME     554859.856 4176368.569 29.12
    LOCATION L0000018     VOLUME     554870.847 4176360.885 28.94
    LOCATION L0000019     VOLUME     554881.837 4176353.201 28.77
    LOCATION L0000020     VOLUME     554892.827 4176345.517 28.60
    LOCATION L0000021     VOLUME     554903.818 4176337.833 28.42
    LOCATION L0000022     VOLUME     554914.808 4176330.150 28.25
    LOCATION L0000023     VOLUME     554925.798 4176322.466 28.08
    LOCATION L0000024     VOLUME     554936.788 4176314.782 27.91
    LOCATION L0000025     VOLUME     554947.779 4176307.098 27.73
    LOCATION L0000026     VOLUME     554958.769 4176299.414 27.56
    LOCATION L0000027     VOLUME     554969.759 4176291.730 27.39
    LOCATION L0000028     VOLUME     554980.749 4176284.046 27.21
    LOCATION L0000029     VOLUME     554991.740 4176276.362 27.04
    LOCATION L0000030     VOLUME     555002.730 4176268.678 26.87
    LOCATION L0000031     VOLUME     555013.720 4176260.995 26.69
    LOCATION L0000032     VOLUME     555024.711 4176253.311 26.52
    LOCATION L0000033     VOLUME     555035.701 4176245.627 26.35
    LOCATION L0000034     VOLUME     555046.691 4176237.943 26.18
    LOCATION L0000035     VOLUME     555057.681 4176230.259 26.00
    LOCATION L0000036     VOLUME     555068.672 4176222.575 25.83
    LOCATION L0000037     VOLUME     555079.662 4176214.891 25.66
    LOCATION L0000038     VOLUME     555090.652 4176207.207 25.48
    LOCATION L0000039     VOLUME     555101.642 4176199.524 25.31
    LOCATION L0000040     VOLUME     555112.633 4176191.840 25.14
    LOCATION L0000041     VOLUME     555123.623 4176184.156 24.97
    LOCATION L0000042     VOLUME     555134.613 4176176.472 24.79
    LOCATION L0000043     VOLUME     555145.603 4176168.788 24.62
    LOCATION L0000044     VOLUME     555156.594 4176161.104 24.45
    LOCATION L0000045     VOLUME     555167.584 4176153.420 24.27
    LOCATION L0000046     VOLUME     555178.574 4176145.736 24.10
    LOCATION L0000047     VOLUME     555189.565 4176138.052 23.93
    LOCATION L0000048     VOLUME     555200.555 4176130.369 23.75
    LOCATION L0000049     VOLUME     555211.545 4176122.685 23.58
    LOCATION L0000050     VOLUME     555222.535 4176115.001 23.41
    LOCATION L0000051     VOLUME     555233.526 4176107.317 23.24
    LOCATION L0000052     VOLUME     555244.516 4176099.633 23.06
    LOCATION L0000053     VOLUME     555255.506 4176091.949 22.89
    LOCATION L0000054     VOLUME     555266.496 4176084.265 22.72
    LOCATION L0000055     VOLUME     555277.487 4176076.581 22.54
    LOCATION L0000056     VOLUME     555288.477 4176068.898 22.37
    LOCATION L0000057     VOLUME     555299.467 4176061.214 22.20
    LOCATION L0000058     VOLUME     555310.458 4176053.530 22.02
    LOCATION L0000059     VOLUME     555321.448 4176045.846 21.85
    LOCATION L0000060     VOLUME     555332.438 4176038.162 21.68
    LOCATION L0000061     VOLUME     555343.428 4176030.478 21.51
    LOCATION L0000062     VOLUME     555354.419 4176022.794 21.33
    LOCATION L0000063     VOLUME     555365.409 4176015.110 21.16
    LOCATION L0000064     VOLUME     555376.399 4176007.426 20.99
    LOCATION L0000065     VOLUME     555387.389 4175999.743 20.81
    LOCATION L0000066     VOLUME     555398.380 4175992.059 20.64
    LOCATION L0000067     VOLUME     555409.370 4175984.375 20.47
    LOCATION L0000068     VOLUME     555420.360 4175976.691 20.30
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   LOCATION L0000069     VOLUME    555431.351 4175969.007 20.12
   LOCATION L0000070     VOLUME    555442.341 4175961.323 19.95
   LOCATION L0000071     VOLUME    555453.331 4175953.639 19.78
   LOCATION L0000072     VOLUME    555464.321 4175945.955 19.60
   LOCATION L0000073     VOLUME    555475.312 4175938.271 19.43
   LOCATION L0000074     VOLUME    555486.302 4175930.588 19.26
** End of LINE VOLUME Source ID = INNESN
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = HAWES
** DESCRSRC
** PREFIX
** Length of Side = 18.29
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 554840.757, 4176392.088, 13.29, 2.00, 8.51
** 554886.921, 4176450.987, 12.78, 2.00, 8.51
** ----------------------------------------------------------------
   LOCATION L0000688     VOLUME    554846.398 4176399.286 13.23
   LOCATION L0000689     VOLUME    554857.681 4176413.681 13.10
   LOCATION L0000690     VOLUME    554868.964 4176428.076 12.98
   LOCATION L0000691     VOLUME    554880.247 4176442.471 12.85
** End of LINE VOLUME Source ID = HAWES
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = HUNT
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 554892.236, 4176367.914, 12.49, 2.00, 6.24
** 554910.687, 4176653.908, 14.47, 2.00, 6.24
** 554851.233, 4176783.066, 10.77, 2.00, 6.24
** ----------------------------------------------------------------
   LOCATION L0000692     VOLUME    554892.668 4176374.605 12.54
   LOCATION L0000693     VOLUME    554893.531 4176387.987 12.63
   LOCATION L0000694     VOLUME    554894.394 4176401.369 12.72
   LOCATION L0000695     VOLUME    554895.258 4176414.752 12.81
   LOCATION L0000696     VOLUME    554896.121 4176428.134 12.91
   LOCATION L0000697     VOLUME    554896.984 4176441.516 13.00
   LOCATION L0000698     VOLUME    554897.848 4176454.898 13.09
   LOCATION L0000699     VOLUME    554898.711 4176468.280 13.18
   LOCATION L0000700     VOLUME    554899.575 4176481.663 13.28
   LOCATION L0000701     VOLUME    554900.438 4176495.045 13.37
   LOCATION L0000702     VOLUME    554901.301 4176508.427 13.46
   LOCATION L0000703     VOLUME    554902.165 4176521.809 13.56
   LOCATION L0000704     VOLUME    554903.028 4176535.191 13.65
   LOCATION L0000705     VOLUME    554903.891 4176548.573 13.74
   LOCATION L0000706     VOLUME    554904.755 4176561.956 13.83
   LOCATION L0000707     VOLUME    554905.618 4176575.338 13.93
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   LOCATION L0000708     VOLUME     554906.481 4176588.720 14.02
   LOCATION L0000709     VOLUME     554907.345 4176602.102 14.11
   LOCATION L0000710     VOLUME     554908.208 4176615.484 14.20
   LOCATION L0000711     VOLUME     554909.071 4176628.866 14.30
   LOCATION L0000712     VOLUME     554909.935 4176642.249 14.39
   LOCATION L0000713     VOLUME     554909.965 4176655.476 14.43
   LOCATION L0000714     VOLUME     554904.358 4176667.658 14.08
   LOCATION L0000715     VOLUME     554898.750 4176679.839 13.73
   LOCATION L0000716     VOLUME     554893.143 4176692.020 13.38
   LOCATION L0000717     VOLUME     554887.536 4176704.202 13.03
   LOCATION L0000718     VOLUME     554881.928 4176716.383 12.68
   LOCATION L0000719     VOLUME     554876.321 4176728.565 12.33
   LOCATION L0000720     VOLUME     554870.714 4176740.746 11.98
   LOCATION L0000721     VOLUME     554865.106 4176752.927 11.63
   LOCATION L0000722     VOLUME     554859.499 4176765.109 11.28
   LOCATION L0000723     VOLUME     554853.892 4176777.290 10.94
** End of LINE VOLUME Source ID = HUNT
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EVANS
** DESCRSRC
** PREFIX
** Length of Side = 13.41
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 554702.207, 4176893.076, 9.07, 2.00, 6.24
** 554846.014, 4176790.551, 10.61, 2.00, 6.24
** 554851.050, 4176783.311, 10.77, 2.00, 6.24
** ----------------------------------------------------------------------
   LOCATION L0000724     VOLUME     554707.667 4176889.184 9.13
   LOCATION L0000725     VOLUME     554718.586 4176881.399 9.25
   LOCATION L0000726     VOLUME     554729.505 4176873.614 9.36
   LOCATION L0000727     VOLUME     554740.424 4176865.830 9.48
   LOCATION L0000728     VOLUME     554751.343 4176858.045 9.60
   LOCATION L0000729     VOLUME     554762.262 4176850.261 9.71
   LOCATION L0000730     VOLUME     554773.181 4176842.476 9.83
   LOCATION L0000731     VOLUME     554784.101 4176834.691 9.95
   LOCATION L0000732     VOLUME     554795.020 4176826.907 10.06
   LOCATION L0000733     VOLUME     554805.939 4176819.122 10.18
   LOCATION L0000734     VOLUME     554816.858 4176811.337 10.30
   LOCATION L0000735     VOLUME     554827.777 4176803.553 10.41
   LOCATION L0000736     VOLUME     554838.696 4176795.768 10.53
   LOCATION L0000737     VOLUME     554848.540 4176786.920 10.69
** End of LINE VOLUME Source ID = EVANS
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = JENN
** DESCRSRC
** PREFIX
** Length of Side = 12.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
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** Nodes = 3
** 554703.459, 4176892.130, 9.07, 2.00, 5.95
** 554679.111, 4176839.151, 15.25, 2.00, 5.95
** 554678.308, 4176801.424, 18.60, 2.00, 5.95
** ----------------------------------------------------------------
   LOCATION L0000738     VOLUME     554700.786 4176886.315 9.75
   LOCATION L0000739     VOLUME     554695.441 4176874.684 11.11
   LOCATION L0000740     VOLUME     554690.096 4176863.054 12.46
   LOCATION L0000741     VOLUME     554684.751 4176851.423 13.82
   LOCATION L0000742     VOLUME     554679.406 4176839.793 15.18
   LOCATION L0000743     VOLUME     554678.854 4176827.060 16.32
   LOCATION L0000744     VOLUME     554678.581 4176814.263 17.46
   LOCATION L0000745     VOLUME     554678.309 4176801.466 18.60
** End of LINE VOLUME Source ID = JENN
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = MIDDLE
** DESCRSRC
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 554679.208, 4176800.861, 18.59, 2.00, 4.82
** 554682.380, 4176500.519, 32.23, 2.00, 4.82
** ----------------------------------------------------------------
   LOCATION L0000746     VOLUME     554679.263 4176795.681 18.83
   LOCATION L0000747     VOLUME     554679.372 4176785.322 19.30
   LOCATION L0000748     VOLUME     554679.482 4176774.962 19.77
   LOCATION L0000749     VOLUME     554679.591 4176764.603 20.24
   LOCATION L0000750     VOLUME     554679.700 4176754.244 20.71
   LOCATION L0000751     VOLUME     554679.810 4176743.884 21.18
   LOCATION L0000752     VOLUME     554679.919 4176733.525 21.65
   LOCATION L0000753     VOLUME     554680.029 4176723.165 22.12
   LOCATION L0000754     VOLUME     554680.138 4176712.806 22.59
   LOCATION L0000755     VOLUME     554680.247 4176702.446 23.06
   LOCATION L0000756     VOLUME     554680.357 4176692.087 23.53
   LOCATION L0000757     VOLUME     554680.466 4176681.728 24.00
   LOCATION L0000758     VOLUME     554680.576 4176671.368 24.47
   LOCATION L0000759     VOLUME     554680.685 4176661.009 24.94
   LOCATION L0000760     VOLUME     554680.794 4176650.649 25.41
   LOCATION L0000761     VOLUME     554680.904 4176640.290 25.88
   LOCATION L0000762     VOLUME     554681.013 4176629.931 26.35
   LOCATION L0000763     VOLUME     554681.123 4176619.571 26.82
   LOCATION L0000764     VOLUME     554681.232 4176609.212 27.29
   LOCATION L0000765     VOLUME     554681.341 4176598.852 27.76
   LOCATION L0000766     VOLUME     554681.451 4176588.493 28.23
   LOCATION L0000767     VOLUME     554681.560 4176578.133 28.71
   LOCATION L0000768     VOLUME     554681.670 4176567.774 29.18
   LOCATION L0000769     VOLUME     554681.779 4176557.415 29.65
   LOCATION L0000770     VOLUME     554681.889 4176547.055 30.12
   LOCATION L0000771     VOLUME     554681.998 4176536.696 30.59
   LOCATION L0000772     VOLUME     554682.107 4176526.336 31.06
   LOCATION L0000773     VOLUME     554682.217 4176515.977 31.53
   LOCATION L0000774     VOLUME     554682.326 4176505.617 32.00
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** End of LINE VOLUME Source ID = MIDDLE
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = GRIFF
** DESCRSRC
** PREFIX
** Length of Side = 7.92
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555009.340, 4176269.854, 10.24, 2.00, 3.69
** 555025.636, 4176286.891, 7.06, 2.00, 3.69
** ---------------------------------------------------------------------
   LOCATION L0000775     VOLUME   555012.077 4176272.716 9.71
   LOCATION L0000776     VOLUME   555017.552 4176278.439 8.64
   LOCATION L0000777     VOLUME   555023.026 4176284.162 7.57
** End of LINE VOLUME Source ID = GRIFF
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = NHUD
** DESCRSRC
** PREFIX
** Length of Side = 10.67
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 6
** 555024.896, 4176285.780, 7.09, 2.00, 4.96
** 555067.860, 4176291.706, 2.98, 2.00, 4.96
** 555184.531, 4176256.890, 7.45, 2.00, 4.96
** 555217.993, 4176210.317, 9.25, 2.00, 4.96
** 555269.871, 4176241.559, 8.83, 2.00, 4.96
** 555400.834, 4176116.886, 6.11, 2.00, 4.96
** ---------------------------------------------------------------------
   LOCATION L0000778     VOLUME   555030.181 4176286.509 6.58
   LOCATION L0000779     VOLUME   555040.751 4176287.967 5.57
   LOCATION L0000780     VOLUME   555051.321 4176289.425 4.56
   LOCATION L0000781     VOLUME   555061.891 4176290.883 3.55
   LOCATION L0000782     VOLUME   555072.310 4176290.378 3.15
   LOCATION L0000783     VOLUME   555082.535 4176287.327 3.54
   LOCATION L0000784     VOLUME   555092.759 4176284.276 3.93
   LOCATION L0000785     VOLUME   555102.984 4176281.225 4.33
   LOCATION L0000786     VOLUME   555113.208 4176278.174 4.72
   LOCATION L0000787     VOLUME   555123.433 4176275.122 5.11
   LOCATION L0000788     VOLUME   555133.657 4176272.071 5.50
   LOCATION L0000789     VOLUME   555143.882 4176269.020 5.89
   LOCATION L0000790     VOLUME   555154.106 4176265.969 6.28
   LOCATION L0000791     VOLUME   555164.331 4176262.918 6.68
   LOCATION L0000792     VOLUME   555174.555 4176259.867 7.07
   LOCATION L0000793     VOLUME   555184.682 4176256.679 7.46
   LOCATION L0000794     VOLUME   555190.908 4176248.014 7.79
   LOCATION L0000795     VOLUME   555197.134 4176239.349 8.13
   LOCATION L0000796     VOLUME   555203.360 4176230.684 8.46
   LOCATION L0000797     VOLUME   555209.586 4176222.018 8.80
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   LOCATION L0000798    VOLUME    555215.812 4176213.353 9.13
   LOCATION L0000799    VOLUME    555223.931 4176213.893 9.20
   LOCATION L0000800    VOLUME    555233.071 4176219.398 9.13
   LOCATION L0000801    VOLUME    555242.212 4176224.902 9.05
   LOCATION L0000802    VOLUME    555251.352 4176230.407 8.98
   LOCATION L0000803    VOLUME    555260.493 4176235.911 8.91
   LOCATION L0000804    VOLUME    555269.633 4176241.416 8.83
   LOCATION L0000805    VOLUME    555277.398 4176234.393 8.67
   LOCATION L0000806    VOLUME    555285.126 4176227.036 8.51
   LOCATION L0000807    VOLUME    555292.855 4176219.679 8.35
   LOCATION L0000808    VOLUME    555300.583 4176212.322 8.19
   LOCATION L0000809    VOLUME    555308.311 4176204.965 8.03
   LOCATION L0000810    VOLUME    555316.039 4176197.608 7.87
   LOCATION L0000811    VOLUME    555323.767 4176190.252 7.71
   LOCATION L0000812    VOLUME    555331.495 4176182.895 7.55
   LOCATION L0000813    VOLUME    555339.223 4176175.538 7.39
   LOCATION L0000814    VOLUME    555346.951 4176168.181 7.23
   LOCATION L0000815    VOLUME    555354.680 4176160.824 7.07
   LOCATION L0000816    VOLUME    555362.408 4176153.467 6.91
   LOCATION L0000817    VOLUME    555370.136 4176146.110 6.75
   LOCATION L0000818    VOLUME    555377.864 4176138.753 6.59
   LOCATION L0000819    VOLUME    555385.592 4176131.396 6.43
   LOCATION L0000820    VOLUME    555393.320 4176124.039 6.27
** End of LINE VOLUME Source ID = NHUD
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ARELI
** DESCRSRC
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555176.012, 4176155.405, 12.75, 2.00, 5.67
** 555214.902, 4176215.037, 9.26, 2.00, 5.67
** -------------------------------------------------------------------
   LOCATION L0000821    VOLUME    555179.341 4176160.510 12.45
   LOCATION L0000822    VOLUME    555186.000 4176170.721 11.85
   LOCATION L0000823    VOLUME    555192.659 4176180.931 11.26
   LOCATION L0000824    VOLUME    555199.318 4176191.142 10.66
   LOCATION L0000825    VOLUME    555205.977 4176201.352 10.06
   LOCATION L0000826    VOLUME    555212.636 4176211.563 9.46
** End of LINE VOLUME Source ID = ARELI
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EARLN
** DESCRSRC
** PREFIX
** Length of Side = 8.53
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 555342.533, 4176040.516, 18.57, 2.00, 3.97
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** 555411.287, 4176117.714, 6.22, 2.00, 3.97
** 555543.971, 4176310.106, 1.95, 2.00, 3.97
** ------------------------------------------------------------------
   LOCATION L0000827     VOLUME     555345.370 4176043.701 18.06
   LOCATION L0000828     VOLUME     555351.043 4176050.071 17.04
   LOCATION L0000829     VOLUME     555356.716 4176056.441 16.02
   LOCATION L0000830     VOLUME     555362.389 4176062.811 15.00
   LOCATION L0000831     VOLUME     555368.062 4176069.181 13.98
   LOCATION L0000832     VOLUME     555373.735 4176075.551 12.97
   LOCATION L0000833     VOLUME     555379.409 4176081.921 11.95
   LOCATION L0000834     VOLUME     555385.082 4176088.290 10.93
   LOCATION L0000835     VOLUME     555390.755 4176094.660 9.91
   LOCATION L0000836     VOLUME     555396.428 4176101.030 8.89
   LOCATION L0000837     VOLUME     555402.101 4176107.400 7.87
   LOCATION L0000838     VOLUME     555407.775 4176113.770 6.85
   LOCATION L0000839     VOLUME     555413.131 4176120.388 6.16
   LOCATION L0000840     VOLUME     555417.974 4176127.410 6.00
   LOCATION L0000841     VOLUME     555422.817 4176134.432 5.85
   LOCATION L0000842     VOLUME     555427.660 4176141.454 5.69
   LOCATION L0000843     VOLUME     555432.502 4176148.476 5.54
   LOCATION L0000844     VOLUME     555437.345 4176155.498 5.38
   LOCATION L0000845     VOLUME     555442.188 4176162.520 5.23
   LOCATION L0000846     VOLUME     555447.031 4176169.542 5.07
   LOCATION L0000847     VOLUME     555451.874 4176176.564 4.91
   LOCATION L0000848     VOLUME     555456.716 4176183.587 4.76
   LOCATION L0000849     VOLUME     555461.559 4176190.609 4.60
   LOCATION L0000850     VOLUME     555466.402 4176197.631 4.45
   LOCATION L0000851     VOLUME     555471.245 4176204.653 4.29
   LOCATION L0000852     VOLUME     555476.087 4176211.675 4.13
   LOCATION L0000853     VOLUME     555480.930 4176218.697 3.98
   LOCATION L0000854     VOLUME     555485.773 4176225.719 3.82
   LOCATION L0000855     VOLUME     555490.616 4176232.741 3.67
   LOCATION L0000856     VOLUME     555495.458 4176239.763 3.51
   LOCATION L0000857     VOLUME     555500.301 4176246.785 3.36
   LOCATION L0000858     VOLUME     555505.144 4176253.807 3.20
   LOCATION L0000859     VOLUME     555509.987 4176260.829 3.04
   LOCATION L0000860     VOLUME     555514.829 4176267.851 2.89
   LOCATION L0000861     VOLUME     555519.672 4176274.873 2.73
   LOCATION L0000862     VOLUME     555524.515 4176281.895 2.58
   LOCATION L0000863     VOLUME     555529.358 4176288.917 2.42
   LOCATION L0000864     VOLUME     555534.200 4176295.939 2.26
   LOCATION L0000865     VOLUME     555539.043 4176302.961 2.11
   LOCATION L0000866     VOLUME     555543.886 4176309.983 1.95
** End of LINE VOLUME Source ID = EARLN
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = DONS
** DESCRSRC
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555402.422, 4175770.444, 32.36, 2.00, 5.67
** 555590.247, 4176037.573, 14.86, 2.00, 5.67
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** ----------------------------------------------------------------------
   LOCATION L0000867     VOLUME      555405.928 4175775.430 32.03
   LOCATION L0000868     VOLUME      555412.939 4175785.402 31.38
   LOCATION L0000869     VOLUME      555419.951 4175795.373 30.73
   LOCATION L0000870     VOLUME      555426.962 4175805.345 30.07
   LOCATION L0000871     VOLUME      555433.973 4175815.317 29.42
   LOCATION L0000872     VOLUME      555440.985 4175825.289 28.77
   LOCATION L0000873     VOLUME      555447.996 4175835.261 28.11
   LOCATION L0000874     VOLUME      555455.008 4175845.232 27.46
   LOCATION L0000875     VOLUME      555462.019 4175855.204 26.81
   LOCATION L0000876     VOLUME      555469.030 4175865.176 26.15
   LOCATION L0000877     VOLUME      555476.042 4175875.148 25.50
   LOCATION L0000878     VOLUME      555483.053 4175885.119 24.85
   LOCATION L0000879     VOLUME      555490.065 4175895.091 24.19
   LOCATION L0000880     VOLUME      555497.076 4175905.063 23.54
   LOCATION L0000881     VOLUME      555504.087 4175915.035 22.89
   LOCATION L0000882     VOLUME      555511.099 4175925.007 22.23
   LOCATION L0000883     VOLUME      555518.110 4175934.978 21.58
   LOCATION L0000884     VOLUME      555525.122 4175944.950 20.93
   LOCATION L0000885     VOLUME      555532.133 4175954.922 20.27
   LOCATION L0000886     VOLUME      555539.144 4175964.894 19.62
   LOCATION L0000887     VOLUME      555546.156 4175974.865 18.97
   LOCATION L0000888     VOLUME      555553.167 4175984.837 18.31
   LOCATION L0000889     VOLUME      555560.179 4175994.809 17.66
   LOCATION L0000890     VOLUME      555567.190 4176004.781 17.01
   LOCATION L0000891     VOLUME      555574.201 4176014.753 16.36
   LOCATION L0000892     VOLUME      555581.213 4176024.724 15.70
   LOCATION L0000893     VOLUME      555588.224 4176034.696 15.05
** End of LINE VOLUME Source ID = DONS
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = GALVEZ
** DESCRSRC
** PREFIX
** Length of Side = 24.38
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 3
** 555601.934, 4176034.234, 14.56, 2.00, 11.34
** 555624.473, 4176030.060, 14.20, 2.00, 11.34
** 555734.664, 4175955.765, 12.39, 2.00, 11.34
** ----------------------------------------------------------------------
   LOCATION L0000894     VOLUME      555613.920 4176032.014 14.37
   LOCATION L0000895     VOLUME      555635.789 4176022.430 14.01
   LOCATION L0000896     VOLUME      555656.003 4176008.801 13.68
   LOCATION L0000897     VOLUME      555676.218 4175995.172 13.35
   LOCATION L0000898     VOLUME      555696.432 4175981.542 13.02
   LOCATION L0000899     VOLUME      555716.647 4175967.913 12.69
** End of LINE VOLUME Source ID = GALVEZ
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = INNESS
** DESCRSRC
** PREFIX
** Length of Side = 12.19
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** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555510.943, 4175906.513, 19.57, 2.00, 5.67
** 555647.847, 4175810.513, 32.11, 2.00, 5.67
** -------------------------------------------------------------------
   LOCATION L0000900     VOLUME     555515.933 4175903.014 20.03
   LOCATION L0000901     VOLUME     555525.914 4175896.015 20.94
   LOCATION L0000902     VOLUME     555535.895 4175889.016 21.86
   LOCATION L0000903     VOLUME     555545.875 4175882.018 22.77
   LOCATION L0000904     VOLUME     555555.856 4175875.019 23.68
   LOCATION L0000905     VOLUME     555565.837 4175868.020 24.60
   LOCATION L0000906     VOLUME     555575.818 4175861.022 25.51
   LOCATION L0000907     VOLUME     555585.798 4175854.023 26.43
   LOCATION L0000908     VOLUME     555595.779 4175847.024 27.34
   LOCATION L0000909     VOLUME     555605.760 4175840.025 28.25
   LOCATION L0000910     VOLUME     555615.740 4175833.027 29.17
   LOCATION L0000911     VOLUME     555625.721 4175826.028 30.08
   LOCATION L0000912     VOLUME     555635.702 4175819.029 31.00
   LOCATION L0000913     VOLUME     555645.683 4175812.031 31.91
** End of LINE VOLUME Source ID = INNESS
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = HUDSON
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555556.856, 4175974.965, 17.00, 2.00, 4.54
** 555696.264, 4175880.635, 24.77, 2.00, 4.54
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   LOCATION L0000914     VOLUME     555560.894 4175972.233 17.23
   LOCATION L0000915     VOLUME     555568.969 4175966.769 17.68
   LOCATION L0000916     VOLUME     555577.044 4175961.305 18.13
   LOCATION L0000917     VOLUME     555585.119 4175955.841 18.58
   LOCATION L0000918     VOLUME     555593.194 4175950.377 19.03
   LOCATION L0000919     VOLUME     555601.269 4175944.913 19.48
   LOCATION L0000920     VOLUME     555609.344 4175939.449 19.93
   LOCATION L0000921     VOLUME     555617.419 4175933.985 20.38
   LOCATION L0000922     VOLUME     555625.494 4175928.521 20.83
   LOCATION L0000923     VOLUME     555633.569 4175923.057 21.28
   LOCATION L0000924     VOLUME     555641.645 4175917.593 21.73
   LOCATION L0000925     VOLUME     555649.720 4175912.129 22.18
   LOCATION L0000926     VOLUME     555657.795 4175906.665 22.63
   LOCATION L0000927     VOLUME     555665.870 4175901.201 23.08
   LOCATION L0000928     VOLUME     555673.945 4175895.737 23.53
   LOCATION L0000929     VOLUME     555682.020 4175890.273 23.98
   LOCATION L0000930     VOLUME     555690.095 4175884.809 24.43
** End of LINE VOLUME Source ID = HUDSON
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** Line Source Represented by Adjacent Volume Sources
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** LINE VOLUME Source ID = KIRKS
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555411.604, 4175769.609, 32.06, 2.00, 4.54
** 555518.456, 4175696.148, 32.61, 2.00, 4.54
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   LOCATION L0000931    VOLUME    555415.621 4175766.847 32.08
   LOCATION L0000932    VOLUME    555423.656 4175761.323 32.12
   LOCATION L0000933    VOLUME    555431.690 4175755.800 32.16
   LOCATION L0000934    VOLUME    555439.724 4175750.276 32.20
   LOCATION L0000935    VOLUME    555447.759 4175744.752 32.25
   LOCATION L0000936    VOLUME    555455.793 4175739.229 32.29
   LOCATION L0000937    VOLUME    555463.828 4175733.705 32.33
   LOCATION L0000938    VOLUME    555471.862 4175728.181 32.37
   LOCATION L0000939    VOLUME    555479.896 4175722.658 32.41
   LOCATION L0000940    VOLUME    555487.931 4175717.134 32.45
   LOCATION L0000941    VOLUME    555495.965 4175711.610 32.49
   LOCATION L0000942    VOLUME    555504.000 4175706.087 32.54
   LOCATION L0000943    VOLUME    555512.034 4175700.563 32.58
** End of LINE VOLUME Source ID = KIRKS
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = FRIED
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555442.491, 4175752.078, 30.40, 2.00, 4.54
** 555587.743, 4175953.260, 21.52, 2.00, 4.54
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   LOCATION L0000944    VOLUME    555445.345 4175756.030 30.23
   LOCATION L0000945    VOLUME    555451.052 4175763.935 29.88
   LOCATION L0000946    VOLUME    555456.759 4175771.840 29.53
   LOCATION L0000947    VOLUME    555462.467 4175779.745 29.18
   LOCATION L0000948    VOLUME    555468.174 4175787.650 28.83
   LOCATION L0000949    VOLUME    555473.881 4175795.555 28.48
   LOCATION L0000950    VOLUME    555479.589 4175803.460 28.13
   LOCATION L0000951    VOLUME    555485.296 4175811.365 27.78
   LOCATION L0000952    VOLUME    555491.003 4175819.270 27.43
   LOCATION L0000953    VOLUME    555496.711 4175827.175 27.09
   LOCATION L0000954    VOLUME    555502.418 4175835.080 26.74
   LOCATION L0000955    VOLUME    555508.125 4175842.985 26.39
   LOCATION L0000956    VOLUME    555513.833 4175850.890 26.04
   LOCATION L0000957    VOLUME    555519.540 4175858.795 25.69
   LOCATION L0000958    VOLUME    555525.247 4175866.700 25.34
   LOCATION L0000959    VOLUME    555530.955 4175874.605 24.99
   LOCATION L0000960    VOLUME    555536.662 4175882.510 24.64
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   LOCATION L0000961      VOLUME     555542.369 4175890.415 24.29
   LOCATION L0000962      VOLUME     555548.077 4175898.320 23.94
   LOCATION L0000963      VOLUME     555553.784 4175906.225 23.60
   LOCATION L0000964      VOLUME     555559.492 4175914.130 23.25
   LOCATION L0000965      VOLUME     555565.199 4175922.035 22.90
   LOCATION L0000966      VOLUME     555570.906 4175929.940 22.55
   LOCATION L0000967      VOLUME     555576.614 4175937.845 22.20
   LOCATION L0000968      VOLUME     555582.321 4175945.750 21.85
** End of LINE VOLUME Source ID = FRIED
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = JERR
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555287.767, 4175961.265, 41.61, 2.00, 4.54
** 555450.550, 4175845.229, 30.22, 2.00, 4.54
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   LOCATION L0000969      VOLUME     555291.737 4175958.435 41.33
   LOCATION L0000970      VOLUME     555299.676 4175952.776 40.78
   LOCATION L0000971      VOLUME     555307.615 4175947.117 40.22
   LOCATION L0000972      VOLUME     555315.555 4175941.457 39.67
   LOCATION L0000973      VOLUME     555323.494 4175935.798 39.11
   LOCATION L0000974      VOLUME     555331.434 4175930.138 38.55
   LOCATION L0000975      VOLUME     555339.373 4175924.479 38.00
   LOCATION L0000976      VOLUME     555347.312 4175918.820 37.44
   LOCATION L0000977      VOLUME     555355.252 4175913.160 36.89
   LOCATION L0000978      VOLUME     555363.191 4175907.501 36.33
   LOCATION L0000979      VOLUME     555371.130 4175901.841 35.78
   LOCATION L0000980      VOLUME     555379.070 4175896.182 35.22
   LOCATION L0000981      VOLUME     555387.009 4175890.523 34.67
   LOCATION L0000982      VOLUME     555394.949 4175884.863 34.11
   LOCATION L0000983      VOLUME     555402.888 4175879.204 33.55
   LOCATION L0000984      VOLUME     555410.827 4175873.544 33.00
   LOCATION L0000985      VOLUME     555418.767 4175867.885 32.44
   LOCATION L0000986      VOLUME     555426.706 4175862.226 31.89
   LOCATION L0000987      VOLUME     555434.645 4175856.566 31.33
   LOCATION L0000988      VOLUME     555442.585 4175850.907 30.78
   LOCATION L0000989      VOLUME     555450.524 4175845.247 30.22
** End of LINE VOLUME Source ID = JERR
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = NORTH
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 8
** 554694.670, 4176228.420, 66.09, 2.00, 4.54
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** 554735.110, 4176222.643, 63.04, 2.00, 4.54
** 554757.063, 4176203.001, 60.06, 2.00, 4.54
** 554780.171, 4176197.224, 56.43, 2.00, 4.54
** 554837.942, 4176153.318, 48.66, 2.00, 4.54
** 554991.613, 4176148.696, 33.60, 2.00, 4.54
** 555144.128, 4176065.506, 36.75, 2.00, 4.54
** 555281.623, 4175964.985, 41.72, 2.00, 4.54
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   LOCATION L0000990     VOLUME     554699.496 4176227.731 65.73
   LOCATION L0000991     VOLUME     554709.148 4176226.352 65.00
   LOCATION L0000992     VOLUME     554718.800 4176224.973 64.27
   LOCATION L0000993     VOLUME     554728.452 4176223.594 63.54
   LOCATION L0000994     VOLUME     554737.364 4176220.626 62.73
   LOCATION L0000995     VOLUME     554744.630 4176214.125 61.75
   LOCATION L0000996     VOLUME     554751.896 4176207.624 60.76
   LOCATION L0000997     VOLUME     554759.796 4176202.318 59.63
   LOCATION L0000998     VOLUME     554769.255 4176199.953 58.14
   LOCATION L0000999     VOLUME     554778.714 4176197.588 56.66
   LOCATION L0001000     VOLUME     554786.738 4176192.233 55.55
   LOCATION L0001001     VOLUME     554794.500 4176186.334 54.50
   LOCATION L0001002     VOLUME     554802.263 4176180.434 53.46
   LOCATION L0001003     VOLUME     554810.025 4176174.535 52.41
   LOCATION L0001004     VOLUME     554817.788 4176168.635 51.37
   LOCATION L0001005     VOLUME     554825.550 4176162.736 50.33
   LOCATION L0001006     VOLUME     554833.313 4176156.836 49.28
   LOCATION L0001007     VOLUME     554841.876 4176153.200 48.27
   LOCATION L0001008     VOLUME     554851.622 4176152.907 47.32
   LOCATION L0001009     VOLUME     554861.367 4176152.613 46.36
   LOCATION L0001010     VOLUME     554871.113 4176152.320 45.41
   LOCATION L0001011     VOLUME     554880.859 4176152.027 44.45
   LOCATION L0001012     VOLUME     554890.604 4176151.734 43.50
   LOCATION L0001013     VOLUME     554900.350 4176151.441 42.54
   LOCATION L0001014     VOLUME     554910.095 4176151.148 41.59
   LOCATION L0001015     VOLUME     554919.841 4176150.855 40.63
   LOCATION L0001016     VOLUME     554929.586 4176150.562 39.68
   LOCATION L0001017     VOLUME     554939.332 4176150.268 38.72
   LOCATION L0001018     VOLUME     554949.078 4176149.975 37.77
   LOCATION L0001019     VOLUME     554958.823 4176149.682 36.81
   LOCATION L0001020     VOLUME     554968.569 4176149.389 35.86
   LOCATION L0001021     VOLUME     554978.314 4176149.096 34.90
   LOCATION L0001022     VOLUME     554988.060 4176148.803 33.95
   LOCATION L0001023     VOLUME     554997.052 4176145.729 33.71
   LOCATION L0001024     VOLUME     555005.611 4176141.060 33.89
   LOCATION L0001025     VOLUME     555014.171 4176136.392 34.07
   LOCATION L0001026     VOLUME     555022.730 4176131.723 34.24
   LOCATION L0001027     VOLUME     555031.290 4176127.054 34.42
   LOCATION L0001028     VOLUME     555039.849 4176122.385 34.60
   LOCATION L0001029     VOLUME     555048.409 4176117.716 34.77
   LOCATION L0001030     VOLUME     555056.968 4176113.048 34.95
   LOCATION L0001031     VOLUME     555065.528 4176108.379 35.13
   LOCATION L0001032     VOLUME     555074.087 4176103.710 35.30
   LOCATION L0001033     VOLUME     555082.647 4176099.041 35.48
   LOCATION L0001034     VOLUME     555091.206 4176094.372 35.66
   LOCATION L0001035     VOLUME     555099.766 4176089.704 35.83
   LOCATION L0001036     VOLUME     555108.325 4176085.035 36.01
   LOCATION L0001037     VOLUME     555116.885 4176080.366 36.19
   LOCATION L0001038     VOLUME     555125.444 4176075.697 36.36
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   LOCATION L0001039     VOLUME    555134.004 4176071.028 36.54
   LOCATION L0001040     VOLUME    555142.563 4176066.360 36.72
   LOCATION L0001041     VOLUME    555150.560 4176060.804 36.98
   LOCATION L0001042     VOLUME    555158.431 4176055.049 37.27
   LOCATION L0001043     VOLUME    555166.302 4176049.295 37.55
   LOCATION L0001044     VOLUME    555174.172 4176043.541 37.84
   LOCATION L0001045     VOLUME    555182.043 4176037.787 38.12
   LOCATION L0001046     VOLUME    555189.914 4176032.032 38.41
   LOCATION L0001047     VOLUME    555197.785 4176026.278 38.69
   LOCATION L0001048     VOLUME    555205.656 4176020.524 38.97
   LOCATION L0001049     VOLUME    555213.527 4176014.769 39.26
   LOCATION L0001050     VOLUME    555221.398 4176009.015 39.54
   LOCATION L0001051     VOLUME    555229.269 4176003.261 39.83
   LOCATION L0001052     VOLUME    555237.139 4175997.506 40.11
   LOCATION L0001053     VOLUME    555245.010 4175991.752 40.40
   LOCATION L0001054     VOLUME    555252.881 4175985.998 40.68
   LOCATION L0001055     VOLUME    555260.752 4175980.244 40.97
   LOCATION L0001056     VOLUME    555268.623 4175974.489 41.25
   LOCATION L0001057     VOLUME    555276.494 4175968.735 41.53
** End of LINE VOLUME Source ID = NORTH
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EARLS
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 2
** 555286.540, 4175961.335, 41.69, 2.00, 4.54
** 555238.289, 4175894.990, 50.09, 2.00, 4.54
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   LOCATION L0001059     VOLUME    555277.938 4175949.507 43.19
   LOCATION L0001060     VOLUME    555272.203 4175941.622 44.19
   LOCATION L0001061     VOLUME    555266.469 4175933.737 45.18
   LOCATION L0001062     VOLUME    555260.734 4175925.852 46.18
   LOCATION L0001063     VOLUME    555254.999 4175917.967 47.18
   LOCATION L0001064     VOLUME    555249.265 4175910.081 48.18
   LOCATION L0001065     VOLUME    555243.530 4175902.196 49.18
** End of LINE VOLUME Source ID = EARLS
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = KIRKN
** DESCRSRC
** PREFIX
** Length of Side = 9.75
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 9
** 554675.912, 4176161.117, 70.08, 2.00, 4.54
** 554690.813, 4176153.312, 69.81, 2.00, 4.54
** 554751.837, 4176088.740, 67.23, 2.00, 4.54
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** 554789.445, 4176063.905, 64.12, 2.00, 4.54
** 554851.888, 4176043.327, 58.54, 2.00, 4.54
** 554893.043, 4176043.327, 57.02, 2.00, 4.54
** 554966.840, 4176058.228, 52.57, 2.00, 4.54
** 555012.253, 4176048.294, 51.68, 2.00, 4.54
** 555234.351, 4175895.025, 50.12, 2.00, 4.54
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   LOCATION L0001067    VOLUME    554688.867 4176154.331 69.85
   LOCATION L0001068    VOLUME    554696.001 4176147.822 69.59
   LOCATION L0001069    VOLUME    554702.698 4176140.736 69.31
   LOCATION L0001070    VOLUME    554709.395 4176133.650 69.02
   LOCATION L0001071    VOLUME    554716.092 4176126.563 68.74
   LOCATION L0001072    VOLUME    554722.789 4176119.477 68.46
   LOCATION L0001073    VOLUME    554729.486 4176112.391 68.17
   LOCATION L0001074    VOLUME    554736.182 4176105.305 67.89
   LOCATION L0001075    VOLUME    554742.879 4176098.219 67.61
   LOCATION L0001076    VOLUME    554749.576 4176091.132 67.33
   LOCATION L0001077    VOLUME    554757.226 4176085.181 66.78
   LOCATION L0001078    VOLUME    554765.362 4176079.808 66.11
   LOCATION L0001079    VOLUME    554773.499 4176074.435 65.44
   LOCATION L0001080    VOLUME    554781.635 4176069.063 64.77
   LOCATION L0001081    VOLUME    554789.816 4176063.783 64.09
   LOCATION L0001082    VOLUME    554799.076 4176060.731 63.26
   LOCATION L0001083    VOLUME    554808.336 4176057.680 62.43
   LOCATION L0001084    VOLUME    554817.596 4176054.628 61.60
   LOCATION L0001085    VOLUME    554826.856 4176051.576 60.78
   LOCATION L0001086    VOLUME    554836.116 4176048.525 59.95
   LOCATION L0001087    VOLUME    554845.376 4176045.473 59.12
   LOCATION L0001088    VOLUME    554854.782 4176043.327 58.43
   LOCATION L0001089    VOLUME    554864.532 4176043.327 58.07
   LOCATION L0001090    VOLUME    554874.282 4176043.327 57.71
   LOCATION L0001091    VOLUME    554884.032 4176043.327 57.35
   LOCATION L0001092    VOLUME    554893.767 4176043.473 56.98
   LOCATION L0001093    VOLUME    554903.324 4176045.403 56.40
   LOCATION L0001094    VOLUME    554912.882 4176047.333 55.82
   LOCATION L0001095    VOLUME    554922.439 4176049.263 55.25
   LOCATION L0001096    VOLUME    554931.996 4176051.192 54.67
   LOCATION L0001097    VOLUME    554941.553 4176053.122 54.09
   LOCATION L0001098    VOLUME    554951.110 4176055.052 53.52
   LOCATION L0001099    VOLUME    554960.667 4176056.982 52.94
   LOCATION L0001100    VOLUME    554970.213 4176057.490 52.50
   LOCATION L0001101    VOLUME    554979.738 4176055.407 52.32
   LOCATION L0001102    VOLUME    554989.262 4176053.323 52.13
   LOCATION L0001103    VOLUME    554998.787 4176051.240 51.94
   LOCATION L0001104    VOLUME    555008.312 4176049.156 51.76
   LOCATION L0001105    VOLUME    555016.957 4176045.048 51.65
   LOCATION L0001106    VOLUME    555024.982 4176039.510 51.59
   LOCATION L0001107    VOLUME    555033.007 4176033.972 51.53
   LOCATION L0001108    VOLUME    555041.031 4176028.434 51.48
   LOCATION L0001109    VOLUME    555049.056 4176022.896 51.42
   LOCATION L0001110    VOLUME    555057.081 4176017.359 51.37
   LOCATION L0001111    VOLUME    555065.105 4176011.821 51.31
   LOCATION L0001112    VOLUME    555073.130 4176006.283 51.25
   LOCATION L0001113    VOLUME    555081.155 4176000.745 51.20
   LOCATION L0001114    VOLUME    555089.179 4175995.207 51.14
   LOCATION L0001115    VOLUME    555097.204 4175989.670 51.08
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   LOCATION L0001116      VOLUME     555105.229 4175984.132 51.03
   LOCATION L0001117      VOLUME     555113.253 4175978.594 50.97
   LOCATION L0001118      VOLUME     555121.278 4175973.056 50.91
   LOCATION L0001119      VOLUME     555129.303 4175967.518 50.86
   LOCATION L0001120      VOLUME     555137.327 4175961.981 50.80
   LOCATION L0001121      VOLUME     555145.352 4175956.443 50.75
   LOCATION L0001122      VOLUME     555153.377 4175950.905 50.69
   LOCATION L0001123      VOLUME     555161.401 4175945.367 50.63
   LOCATION L0001124      VOLUME     555169.426 4175939.829 50.58
   LOCATION L0001125      VOLUME     555177.451 4175934.292 50.52
   LOCATION L0001126      VOLUME     555185.475 4175928.754 50.46
   LOCATION L0001127      VOLUME     555193.500 4175923.216 50.41
   LOCATION L0001128      VOLUME     555201.525 4175917.678 50.35
   LOCATION L0001129      VOLUME     555209.549 4175912.141 50.29
   LOCATION L0001130      VOLUME     555217.574 4175906.603 50.24
   LOCATION L0001131      VOLUME     555225.599 4175901.065 50.18
   LOCATION L0001132      VOLUME     555233.623 4175895.527 50.13
** End of LINE VOLUME Source ID = KIRKN
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = INGALLS
** DESCRSRC
** PREFIX
** Length of Side = 10.97
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 4.00
** SZINIT = 2.30
** Nodes = 7
** 554671.654, 4176163.956, 70.05, 2.00, 5.10
** 554685.561, 4176197.232, 69.11, 2.00, 5.10
** 554691.523, 4176234.235, 65.57, 2.00, 5.10
** 554669.053, 4176313.322, 53.70, 2.00, 5.10
** 554643.824, 4176384.119, 42.72, 2.00, 5.10
** 554637.579, 4176439.343, 35.20, 2.00, 5.10
** 554682.511, 4176495.884, 31.77, 2.00, 5.10
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   LOCATION L0001133      VOLUME     554673.769 4176169.017 69.91
   LOCATION L0001134      VOLUME     554677.999 4176179.138 69.62
   LOCATION L0001135      VOLUME     554682.229 4176189.260 69.34
   LOCATION L0001136      VOLUME     554685.932 4176199.532 68.89
   LOCATION L0001137      VOLUME     554687.677 4176210.362 67.85
   LOCATION L0001138      VOLUME     554689.422 4176221.193 66.82
   LOCATION L0001139      VOLUME     554691.167 4176232.023 65.78
   LOCATION L0001140      VOLUME     554689.137 4176242.632 64.31
   LOCATION L0001141      VOLUME     554686.139 4176253.185 62.73
   LOCATION L0001142      VOLUME     554683.141 4176263.737 61.14
   LOCATION L0001143      VOLUME     554680.143 4176274.289 59.56
   LOCATION L0001144      VOLUME     554677.145 4176284.842 57.97
   LOCATION L0001145      VOLUME     554674.147 4176295.394 56.39
   LOCATION L0001146      VOLUME     554671.149 4176305.946 54.81
   LOCATION L0001147      VOLUME     554667.944 4176316.433 53.22
   LOCATION L0001148      VOLUME     554664.262 4176326.766 51.61
   LOCATION L0001149      VOLUME     554660.580 4176337.100 50.01
   LOCATION L0001150      VOLUME     554656.897 4176347.433 48.41
   LOCATION L0001151      VOLUME     554653.215 4176357.767 46.81
   LOCATION L0001152      VOLUME     554649.532 4176368.100 45.20
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    LOCATION L0001153      VOLUME     554645.850 4176378.434 43.60
    LOCATION L0001154      VOLUME     554643.270 4176389.022 42.05
    LOCATION L0001155      VOLUME     554642.037 4176399.923 40.57
    LOCATION L0001156      VOLUME     554640.804 4176410.823 39.08
    LOCATION L0001157      VOLUME     554639.571 4176421.724 37.60
    LOCATION L0001158      VOLUME     554638.339 4176432.624 36.11
    LOCATION L0001159      VOLUME     554640.197 4176442.638 35.00
    LOCATION L0001160      VOLUME     554647.022 4176451.226 34.48
    LOCATION L0001161      VOLUME     554653.847 4176459.815 33.96
    LOCATION L0001162      VOLUME     554660.672 4176468.403 33.44
    LOCATION L0001163      VOLUME     554667.497 4176476.991 32.92
    LOCATION L0001164      VOLUME     554674.322 4176485.580 32.40
    LOCATION L0001165      VOLUME     554681.147 4176494.168 31.87
** End of LINE VOLUME Source ID = INGALLS
** ----------------------------------------------------------------------

** Source Parameters **
    SRCPARAM EMGEN1              1.0    22.641    739.817   45.30000    0.183
    SRCPARAM EMGEN2              1.0    23.860    739.817   45.30000    0.183
    SRCPARAM EMGEN3              1.0     5.572    739.817   45.30000    0.183
    SRCPARAM EMGEN4              1.0    24.774    739.817   45.30000    0.183
    SRCPARAM EMGEN5              1.0    22.641    739.817   45.30000    0.183
    SRCPARAM EMGEN6              1.0    23.860    739.817   45.30000    0.183
    SRCPARAM EMGEN7              1.0     5.572    739.817   45.30000    0.183
    SRCPARAM EMGEN8              1.0    24.774    739.817   45.30000    0.183

** LINE VOLUME Source ID = INNESN
    SRCPARAM L0000001      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000002      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000003      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000004      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000005      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000006      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000007      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000008      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000009      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000010      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000011      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000012      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000013      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000014      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000015      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000016      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000017      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000018      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000019      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000020      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000021      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000022      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000023      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000024      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000025      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000026      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000027      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000028      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000029      0.0135135135     2.00      6.24       2.30
    SRCPARAM L0000030      0.0135135135     2.00      6.24       2.30
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    SRCPARAM L0000031      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000032      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000033      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000034      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000035      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000036      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000037      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000038      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000039      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000040      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000041      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000042      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000043      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000044      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000045      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000046      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000047      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000048      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000049      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000050      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000051      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000052      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000053      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000054      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000055      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000056      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000057      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000058      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000059      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000060      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000061      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000062      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000063      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000064      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000065      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000066      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000067      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000068      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000069      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000070      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000071      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000072      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000073      0.0135135135      2.00      6.24      2.30
    SRCPARAM L0000074      0.0135135135      2.00      6.24      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = HAWES
    SRCPARAM L0000688          0.25      2.00      8.51      2.30
    SRCPARAM L0000689          0.25      2.00      8.51      2.30
    SRCPARAM L0000690          0.25      2.00      8.51      2.30
    SRCPARAM L0000691          0.25      2.00      8.51      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = HUNT
    SRCPARAM L0000692       0.03125      2.00      6.24      2.30
    SRCPARAM L0000693       0.03125      2.00      6.24      2.30
    SRCPARAM L0000694       0.03125      2.00      6.24      2.30
    SRCPARAM L0000695       0.03125      2.00      6.24      2.30
    SRCPARAM L0000696       0.03125      2.00      6.24      2.30
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    SRCPARAM L0000697        0.03125      2.00      6.24      2.30
    SRCPARAM L0000698        0.03125      2.00      6.24      2.30
    SRCPARAM L0000699        0.03125      2.00      6.24      2.30
    SRCPARAM L0000700        0.03125      2.00      6.24      2.30
    SRCPARAM L0000701        0.03125      2.00      6.24      2.30
    SRCPARAM L0000702        0.03125      2.00      6.24      2.30
    SRCPARAM L0000703        0.03125      2.00      6.24      2.30
    SRCPARAM L0000704        0.03125      2.00      6.24      2.30
    SRCPARAM L0000705        0.03125      2.00      6.24      2.30
    SRCPARAM L0000706        0.03125      2.00      6.24      2.30
    SRCPARAM L0000707        0.03125      2.00      6.24      2.30
    SRCPARAM L0000708        0.03125      2.00      6.24      2.30
    SRCPARAM L0000709        0.03125      2.00      6.24      2.30
    SRCPARAM L0000710        0.03125      2.00      6.24      2.30
    SRCPARAM L0000711        0.03125      2.00      6.24      2.30
    SRCPARAM L0000712        0.03125      2.00      6.24      2.30
    SRCPARAM L0000713        0.03125      2.00      6.24      2.30
    SRCPARAM L0000714        0.03125      2.00      6.24      2.30
    SRCPARAM L0000715        0.03125      2.00      6.24      2.30
    SRCPARAM L0000716        0.03125      2.00      6.24      2.30
    SRCPARAM L0000717        0.03125      2.00      6.24      2.30
    SRCPARAM L0000718        0.03125      2.00      6.24      2.30
    SRCPARAM L0000719        0.03125      2.00      6.24      2.30
    SRCPARAM L0000720        0.03125      2.00      6.24      2.30
    SRCPARAM L0000721        0.03125      2.00      6.24      2.30
    SRCPARAM L0000722        0.03125      2.00      6.24      2.30
    SRCPARAM L0000723        0.03125      2.00      6.24      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = EVANS
    SRCPARAM L0000724     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000725     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000726     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000727     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000728     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000729     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000730     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000731     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000732     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000733     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000734     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000735     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000736     0.0714285714     2.00      6.24      2.30
    SRCPARAM L0000737     0.0714285714     2.00      6.24      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = JENN
    SRCPARAM L0000738        0.125        2.00      5.95      2.30
    SRCPARAM L0000739        0.125        2.00      5.95      2.30
    SRCPARAM L0000740        0.125        2.00      5.95      2.30
    SRCPARAM L0000741        0.125        2.00      5.95      2.30
    SRCPARAM L0000742        0.125        2.00      5.95      2.30
    SRCPARAM L0000743        0.125        2.00      5.95      2.30
    SRCPARAM L0000744        0.125        2.00      5.95      2.30
    SRCPARAM L0000745        0.125        2.00      5.95      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = MIDDLE
    SRCPARAM L0000746     0.0344827586     2.00      4.82      2.30
    SRCPARAM L0000747     0.0344827586     2.00      4.82      2.30
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    SRCPARAM L0000748    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000749    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000750    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000751    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000752    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000753    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000754    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000755    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000756    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000757    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000758    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000759    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000760    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000761    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000762    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000763    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000764    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000765    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000766    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000767    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000768    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000769    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000770    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000771    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000772    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000773    0.0344827586    2.00    4.82    2.30
    SRCPARAM L0000774    0.0344827586    2.00    4.82    2.30
** ------------------------------------------------------------
** LINE VOLUME Source ID = GRIFF
    SRCPARAM L0000775    0.3333333333    2.00    3.69    2.30
    SRCPARAM L0000776    0.3333333333    2.00    3.69    2.30
    SRCPARAM L0000777    0.3333333333    2.00    3.69    2.30
** ------------------------------------------------------------
** LINE VOLUME Source ID = NHUD
    SRCPARAM L0000778    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000779    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000780    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000781    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000782    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000783    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000784    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000785    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000786    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000787    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000788    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000789    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000790    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000791    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000792    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000793    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000794    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000795    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000796    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000797    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000798    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000799    0.023255814     2.00    4.96    2.30
    SRCPARAM L0000800    0.023255814     2.00    4.96    2.30
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    SRCPARAM L0000801     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000802     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000803     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000804     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000805     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000806     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000807     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000808     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000809     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000810     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000811     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000812     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000813     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000814     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000815     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000816     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000817     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000818     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000819     0.023255814     2.00      4.96      2.30
    SRCPARAM L0000820     0.023255814     2.00      4.96      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = ARELI
    SRCPARAM L0000821     0.1666666667    2.00      5.67      2.30
    SRCPARAM L0000822     0.1666666667    2.00      5.67      2.30
    SRCPARAM L0000823     0.1666666667    2.00      5.67      2.30
    SRCPARAM L0000824     0.1666666667    2.00      5.67      2.30
    SRCPARAM L0000825     0.1666666667    2.00      5.67      2.30
    SRCPARAM L0000826     0.1666666667    2.00      5.67      2.30
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = EARLN
    SRCPARAM L0000827     0.025           2.00      3.97      2.30
    SRCPARAM L0000828     0.025           2.00      3.97      2.30
    SRCPARAM L0000829     0.025           2.00      3.97      2.30
    SRCPARAM L0000830     0.025           2.00      3.97      2.30
    SRCPARAM L0000831     0.025           2.00      3.97      2.30
    SRCPARAM L0000832     0.025           2.00      3.97      2.30
    SRCPARAM L0000833     0.025           2.00      3.97      2.30
    SRCPARAM L0000834     0.025           2.00      3.97      2.30
    SRCPARAM L0000835     0.025           2.00      3.97      2.30
    SRCPARAM L0000836     0.025           2.00      3.97      2.30
    SRCPARAM L0000837     0.025           2.00      3.97      2.30
    SRCPARAM L0000838     0.025           2.00      3.97      2.30
    SRCPARAM L0000839     0.025           2.00      3.97      2.30
    SRCPARAM L0000840     0.025           2.00      3.97      2.30
    SRCPARAM L0000841     0.025           2.00      3.97      2.30
    SRCPARAM L0000842     0.025           2.00      3.97      2.30
    SRCPARAM L0000843     0.025           2.00      3.97      2.30
    SRCPARAM L0000844     0.025           2.00      3.97      2.30
    SRCPARAM L0000845     0.025           2.00      3.97      2.30
    SRCPARAM L0000846     0.025           2.00      3.97      2.30
    SRCPARAM L0000847     0.025           2.00      3.97      2.30
    SRCPARAM L0000848     0.025           2.00      3.97      2.30
    SRCPARAM L0000849     0.025           2.00      3.97      2.30
    SRCPARAM L0000850     0.025           2.00      3.97      2.30
    SRCPARAM L0000851     0.025           2.00      3.97      2.30
    SRCPARAM L0000852     0.025           2.00      3.97      2.30
    SRCPARAM L0000853     0.025           2.00      3.97      2.30
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     SRCPARAM L0000854        0.025         2.00     3.97      2.30
     SRCPARAM L0000855        0.025         2.00     3.97      2.30
     SRCPARAM L0000856        0.025         2.00     3.97      2.30
     SRCPARAM L0000857        0.025         2.00     3.97      2.30
     SRCPARAM L0000858        0.025         2.00     3.97      2.30
     SRCPARAM L0000859        0.025         2.00     3.97      2.30
     SRCPARAM L0000860        0.025         2.00     3.97      2.30
     SRCPARAM L0000861        0.025         2.00     3.97      2.30
     SRCPARAM L0000862        0.025         2.00     3.97      2.30
     SRCPARAM L0000863        0.025         2.00     3.97      2.30
     SRCPARAM L0000864        0.025         2.00     3.97      2.30
     SRCPARAM L0000865        0.025         2.00     3.97      2.30
     SRCPARAM L0000866        0.025         2.00     3.97      2.30
**   ----------------------------------------------------------------
**   LINE VOLUME Source ID = DONS
     SRCPARAM L0000867    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000868    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000869    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000870    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000871    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000872    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000873    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000874    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000875    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000876    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000877    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000878    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000879    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000880    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000881    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000882    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000883    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000884    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000885    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000886    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000887    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000888    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000889    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000890    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000891    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000892    0.037037037       2.00     5.67      2.30
     SRCPARAM L0000893    0.037037037       2.00     5.67      2.30
**   ----------------------------------------------------------------
**   LINE VOLUME Source ID = GALVEZ
     SRCPARAM L0000894    0.1666666667      2.00    11.34      2.30
     SRCPARAM L0000895    0.1666666667      2.00    11.34      2.30
     SRCPARAM L0000896    0.1666666667      2.00    11.34      2.30
     SRCPARAM L0000897    0.1666666667      2.00    11.34      2.30
     SRCPARAM L0000898    0.1666666667      2.00    11.34      2.30
     SRCPARAM L0000899    0.1666666667      2.00    11.34      2.30
**   ----------------------------------------------------------------
**   LINE VOLUME Source ID = INNESS
     SRCPARAM L0000900    0.0714285714      2.00     5.67      2.30
     SRCPARAM L0000901    0.0714285714      2.00     5.67      2.30
     SRCPARAM L0000902    0.0714285714      2.00     5.67      2.30
     SRCPARAM L0000903    0.0714285714      2.00     5.67      2.30
     SRCPARAM L0000904    0.0714285714      2.00     5.67      2.30
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    SRCPARAM L0000905        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000906        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000907        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000908        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000909        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000910        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000911        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000912        0.0714285714      2.00       5.67       2.30
    SRCPARAM L0000913        0.0714285714      2.00       5.67       2.30
**  ---------------------------------------------------------------
**  LINE VOLUME Source ID = HUDSON
    SRCPARAM L0000914        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000915        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000916        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000917        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000918        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000919        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000920        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000921        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000922        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000923        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000924        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000925        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000926        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000927        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000928        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000929        0.0588235294      2.00       4.54       2.30
    SRCPARAM L0000930        0.0588235294      2.00       4.54       2.30
**  ---------------------------------------------------------------
**  LINE VOLUME Source ID = KIRKS
    SRCPARAM L0000931        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000932        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000933        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000934        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000935        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000936        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000937        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000938        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000939        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000940        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000941        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000942        0.0769230769      2.00       4.54       2.30
    SRCPARAM L0000943        0.0769230769      2.00       4.54       2.30
**  ---------------------------------------------------------------
**  LINE VOLUME Source ID = FRIED
    SRCPARAM L0000944            0.04          2.00       4.54       2.30
    SRCPARAM L0000945            0.04          2.00       4.54       2.30
    SRCPARAM L0000946            0.04          2.00       4.54       2.30
    SRCPARAM L0000947            0.04          2.00       4.54       2.30
    SRCPARAM L0000948            0.04          2.00       4.54       2.30
    SRCPARAM L0000949            0.04          2.00       4.54       2.30
    SRCPARAM L0000950            0.04          2.00       4.54       2.30
    SRCPARAM L0000951            0.04          2.00       4.54       2.30
    SRCPARAM L0000952            0.04          2.00       4.54       2.30
    SRCPARAM L0000953            0.04          2.00       4.54       2.30
    SRCPARAM L0000954            0.04          2.00       4.54       2.30
    SRCPARAM L0000955            0.04          2.00       4.54       2.30
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   SRCPARAM L0000956          0.04       2.00      4.54      2.30
   SRCPARAM L0000957          0.04       2.00      4.54      2.30
   SRCPARAM L0000958          0.04       2.00      4.54      2.30
   SRCPARAM L0000959          0.04       2.00      4.54      2.30
   SRCPARAM L0000960          0.04       2.00      4.54      2.30
   SRCPARAM L0000961          0.04       2.00      4.54      2.30
   SRCPARAM L0000962          0.04       2.00      4.54      2.30
   SRCPARAM L0000963          0.04       2.00      4.54      2.30
   SRCPARAM L0000964          0.04       2.00      4.54      2.30
   SRCPARAM L0000965          0.04       2.00      4.54      2.30
   SRCPARAM L0000966          0.04       2.00      4.54      2.30
   SRCPARAM L0000967          0.04       2.00      4.54      2.30
   SRCPARAM L0000968          0.04       2.00      4.54      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = JERR
   SRCPARAM L0000969    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000970    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000971    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000972    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000973    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000974    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000975    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000976    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000977    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000978    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000979    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000980    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000981    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000982    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000983    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000984    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000985    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000986    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000987    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000988    0.0476190476    2.00      4.54      2.30
   SRCPARAM L0000989    0.0476190476    2.00      4.54      2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = NORTH
   SRCPARAM L0000990    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000991    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000992    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000993    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000994    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000995    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000996    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000997    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000998    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0000999    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001000    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001001    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001002    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001003    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001004    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001005    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001006    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001007    0.0147058824    2.00      4.54      2.30
   SRCPARAM L0001008    0.0147058824    2.00      4.54      2.30
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    SRCPARAM L0001009        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001010        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001011        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001012        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001013        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001014        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001015        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001016        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001017        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001018        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001019        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001020        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001021        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001022        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001023        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001024        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001025        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001026        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001027        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001028        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001029        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001030        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001031        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001032        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001033        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001034        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001035        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001036        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001037        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001038        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001039        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001040        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001041        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001042        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001043        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001044        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001045        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001046        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001047        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001048        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001049        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001050        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001051        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001052        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001053        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001054        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001055        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001056        0.0147058824      2.00      4.54      2.30
    SRCPARAM L0001057        0.0147058824      2.00      4.54      2.30
**  ------------------------------------------------------------------
**  LINE VOLUME Source ID = EARLS
    SRCPARAM L0001058            0.125         2.00      4.54      2.30
    SRCPARAM L0001059            0.125         2.00      4.54      2.30
    SRCPARAM L0001060            0.125         2.00      4.54      2.30
    SRCPARAM L0001061            0.125         2.00      4.54      2.30
    SRCPARAM L0001062            0.125         2.00      4.54      2.30
    SRCPARAM L0001063            0.125         2.00      4.54      2.30
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     SRCPARAM L0001064         0.125        2.00       4.54       2.30
     SRCPARAM L0001065         0.125        2.00       4.54       2.30
** ----------------------------------------------------------------
** LINE VOLUME Source ID = KIRKN
     SRCPARAM L0001066    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001067    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001068    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001069    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001070    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001071    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001072    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001073    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001074    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001075    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001076    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001077    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001078    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001079    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001080    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001081    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001082    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001083    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001084    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001085    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001086    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001087    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001088    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001089    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001090    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001091    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001092    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001093    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001094    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001095    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001096    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001097    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001098    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001099    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001100    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001101    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001102    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001103    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001104    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001105    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001106    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001107    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001108    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001109    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001110    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001111    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001112    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001113    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001114    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001115    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001116    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001117    0.0149253731      2.00       4.54       2.30
     SRCPARAM L0001118    0.0149253731      2.00       4.54       2.30
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    SRCPARAM L0001119      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001120      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001121      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001122      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001123      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001124      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001125      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001126      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001127      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001128      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001129      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001130      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001131      0.0149253731      2.00      4.54      2.30
    SRCPARAM L0001132      0.0149253731      2.00      4.54      2.30
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = INGALLS
    SRCPARAM L0001133      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001134      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001135      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001136      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001137      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001138      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001139      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001140      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001141      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001142      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001143      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001144      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001145      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001146      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001147      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001148      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001149      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001150      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001151      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001152      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001153      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001154      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001155      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001156      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001157      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001158      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001159      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001160      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001161      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001162      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001163      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001164      0.0303030303      2.00      5.10      2.30
    SRCPARAM L0001165      0.0303030303      2.00      5.10      2.30
**  ----------------------------------------------------------------------
**  Building Downwash **
    BUILDHGT EMGEN1         21.64     21.64     21.64     22.86     22.86     22.86
    BUILDHGT EMGEN1         22.86     42.67     42.67     42.67     42.67     42.67
    BUILDHGT EMGEN1         42.67     45.72     45.72     45.72     45.72     45.72
    BUILDHGT EMGEN1         21.64     21.64     21.64     22.86     22.86     22.86
    BUILDHGT EMGEN1         22.86     42.67     42.67     42.67     42.67     42.67
    BUILDHGT EMGEN1         46.63     46.63     46.63     44.20     45.72     45.72
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BUILDHGT EMGEN2          44.20    44.20    44.20    44.20    44.20    44.20
BUILDHGT EMGEN2          22.86    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN2          42.67    22.86    22.86    22.86    42.67    42.67
BUILDHGT EMGEN2          44.20    44.20    44.20    44.20    44.20    44.20
BUILDHGT EMGEN2          22.86    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN2          42.67    22.86    22.86    22.86    42.67    42.67

BUILDHGT EMGEN3          44.20    44.20    44.20     4.57    42.67    42.67
BUILDHGT EMGEN3          42.67    42.67    42.67    42.67    22.86    22.86
BUILDHGT EMGEN3          22.86    22.86    22.86    22.86    22.86    42.67
BUILDHGT EMGEN3          22.86    22.86    22.86     4.57    42.67    42.67
BUILDHGT EMGEN3          42.67    42.67    42.67    42.67    22.86    22.86
BUILDHGT EMGEN3          22.86    22.86    22.86    22.86    22.86    42.67

BUILDHGT EMGEN4          24.69    24.69    23.77    22.86    23.77    23.77
BUILDHGT EMGEN4          44.20    44.20    22.86    22.86    23.77    23.77
BUILDHGT EMGEN4          23.77    23.77    23.77    24.69    24.69    24.69
BUILDHGT EMGEN4          24.69    24.69    23.77    22.86    23.77    23.77
BUILDHGT EMGEN4          23.77    23.77    23.77    23.77    23.77    23.77
BUILDHGT EMGEN4          23.77    23.77    23.77    24.69    24.69    24.69

BUILDHGT EMGEN5          21.64    21.64    21.64    22.86    22.86    22.86
BUILDHGT EMGEN5          22.86    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN5          42.67    45.72    45.72    45.72    45.72    45.72
BUILDHGT EMGEN5          21.64    21.64    21.64    22.86    22.86    22.86
BUILDHGT EMGEN5          22.86    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN5          46.63    46.63    46.63    44.20    45.72    45.72

BUILDHGT EMGEN6          44.20    44.20    44.20    44.20    44.20    44.20
BUILDHGT EMGEN6          22.86    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN6          42.67    22.86    22.86    22.86    22.86    42.67
BUILDHGT EMGEN6          44.20    44.20    44.20    44.20    44.20    44.20
BUILDHGT EMGEN6          22.86    42.67    42.67    42.67    42.67    42.67
BUILDHGT EMGEN6          42.67    22.86    22.86    22.86    22.86    42.67

BUILDHGT EMGEN7          44.20    44.20    44.20     4.57    42.67    42.67
BUILDHGT EMGEN7          42.67    42.67    42.67    42.67    22.86    22.86
BUILDHGT EMGEN7          22.86    22.86    22.86    22.86    22.86    42.67
BUILDHGT EMGEN7          22.86    22.86    22.86     4.57    42.67    42.67
BUILDHGT EMGEN7          42.67    42.67    42.67    42.67    21.64    22.86
BUILDHGT EMGEN7          22.86    22.86    22.86    22.86    22.86    42.67

BUILDHGT EMGEN8          24.69    24.69    23.77    22.86    23.77    23.77
BUILDHGT EMGEN8          44.20    44.20    22.86    22.86    23.77    23.77
BUILDHGT EMGEN8          23.77    23.77    23.77    24.69    24.69    24.69
BUILDHGT EMGEN8          24.69    24.69    23.77    22.86    23.77    23.77
BUILDHGT EMGEN8          23.77    23.77    23.77    23.77    23.77    23.77
BUILDHGT EMGEN8          23.77    23.77    23.77    24.69    24.69    24.69

BUILDWID EMGEN1          61.11    54.97    47.15    57.89    70.66    81.29
BUILDWID EMGEN1          92.47    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN1          41.41    40.99    41.90    41.54    39.92    37.08
BUILDWID EMGEN1          61.11    54.97    47.15    57.89    70.66    81.29
BUILDWID EMGEN1          92.47    46.19    46.99    46.37    44.33    42.69
BUILDWID EMGEN1          39.59    41.42    42.00    43.61    39.92    37.08
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    BUILDWID EMGEN2         39.19    35.06    29.87    29.79    34.41    37.97
    BUILDWID EMGEN2         69.02    46.19    46.99    46.37    44.33    42.69
    BUILDWID EMGEN2         41.41   119.09   123.48   124.12    42.68    42.68
    BUILDWID EMGEN2         39.19    35.06    29.87    29.79    34.41    37.97
    BUILDWID EMGEN2         69.02    46.19    46.99    46.37    44.33    42.69
    BUILDWID EMGEN2         41.41   119.09    34.50    34.23    42.68    42.68

    BUILDWID EMGEN3         39.19    35.06    29.87     7.68    35.66    40.43
    BUILDWID EMGEN3         43.98    46.19    46.99    46.37   110.39   112.91
    BUILDWID EMGEN3        115.86   119.09   123.48   124.12   120.98    42.72
    BUILDWID EMGEN3        103.89    90.45    74.35     7.68    35.66    40.43
    BUILDWID EMGEN3         43.98    46.19    46.99    46.37   110.39   112.91
    BUILDWID EMGEN3        115.86   119.09   123.48   124.12   120.98    42.72

    BUILDWID EMGEN4         28.57    24.48    22.97    57.52    23.24    27.03
    BUILDWID EMGEN4         40.38    41.57    95.46   104.51    32.27    30.36
    BUILDWID EMGEN4         30.87    31.96    32.07    35.27    34.05    31.79
    BUILDWID EMGEN4         28.57    24.48    22.97    57.52    23.24    27.03
    BUILDWID EMGEN4         29.99    32.05    33.13    33.20    32.27    30.36
    BUILDWID EMGEN4         30.87    31.96    32.07    35.27    34.05    31.79

    BUILDWID EMGEN5         61.11    54.97    47.15    57.89    70.66    81.29
    BUILDWID EMGEN5         92.47    46.19    46.99    46.37    44.33    42.69
    BUILDWID EMGEN5         41.41    40.99    41.90    41.54    39.92    37.08
    BUILDWID EMGEN5         61.11    54.97    47.15    57.89    70.66    81.29
    BUILDWID EMGEN5         92.47    46.19    46.99    46.37    44.33    42.69
    BUILDWID EMGEN5         39.59    41.42    42.00    43.55    39.92    37.08

    BUILDWID EMGEN6         39.19    35.06    29.87    29.79    34.41    37.97
    BUILDWID EMGEN6         69.02    46.19    46.99    46.37    44.33    42.69
    BUILDWID EMGEN6         41.41   119.09   123.48   124.12   120.98    42.74
    BUILDWID EMGEN6         39.19    35.06    29.87    29.79    34.41    37.97
    BUILDWID EMGEN6         69.02    46.19    46.99    46.37    44.33    42.69
    BUILDWID EMGEN6         41.41   119.09    34.50    34.23    32.92    42.74

    BUILDWID EMGEN7         39.19    35.06    29.87     7.68    35.66    40.43
    BUILDWID EMGEN7         43.98    46.19    46.99    46.37   109.21   112.91
    BUILDWID EMGEN7        115.86   119.09   123.48   124.12   120.98    42.72
    BUILDWID EMGEN7        103.89    90.45    74.35     7.68    35.66    40.43
    BUILDWID EMGEN7         43.98    46.19    46.99    46.37   109.67   112.91
    BUILDWID EMGEN7        115.86   119.09   123.48   124.12   120.98    42.72

    BUILDWID EMGEN8         28.57    24.48    22.97    57.52    23.24    27.03
    BUILDWID EMGEN8         40.38    41.57    95.46   104.51    32.27    30.36
    BUILDWID EMGEN8         30.87    31.96    32.07    35.27    34.05    31.79
    BUILDWID EMGEN8         28.57    24.48    22.97    57.52    23.24    27.03
    BUILDWID EMGEN8         29.99    32.05    33.13    33.20    32.27    30.36
    BUILDWID EMGEN8         30.87    31.96    32.07    35.27    34.05    31.79

    BUILDLEN EMGEN1         52.59    50.35    51.77    97.94    89.85    81.61
    BUILDLEN EMGEN1         70.89    39.92    38.80    37.03    34.14    30.21
    BUILDLEN EMGEN1         29.81    26.57    31.07    34.63    37.14    38.52
    BUILDLEN EMGEN1         52.59    50.35    51.77    97.94    89.85    81.61
    BUILDLEN EMGEN1         70.89    39.92    38.80    37.03    34.14    30.21
    BUILDLEN EMGEN1         20.36    24.63    28.15    40.38    37.14    38.52

    BUILDLEN EMGEN2         40.15    37.84    37.35    39.59    41.42    43.11
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BUILDLEN EMGEN2         124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN2          29.81    58.34    54.10    69.02    41.57    41.49
BUILDLEN EMGEN2          40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN2         124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN2          29.81    58.34    27.03    30.17    41.57    41.49

BUILDLEN EMGEN3          40.15    37.84    37.35     7.76    40.99    41.90
BUILDLEN EMGEN3          41.54    39.92    38.80    37.03    90.45    74.35
BUILDLEN EMGEN3          63.58    58.34    54.10    69.02    83.51    41.49
BUILDLEN EMGEN3         104.51   110.39   112.91     7.76    40.99    41.90
BUILDLEN EMGEN3          41.54    39.92    38.80    37.03    90.45    74.35
BUILDLEN EMGEN3          63.58    58.34    54.10    69.02    83.51    41.49

BUILDLEN EMGEN4          37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN4          44.12    43.79   114.17   103.89    20.69    19.68
BUILDLEN EMGEN4          18.74    23.24    27.03    33.90    36.04    37.09
BUILDLEN EMGEN4          37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN4          31.21    29.40    26.70    23.19    20.69    19.68
BUILDLEN EMGEN4          18.74    23.24    27.03    33.90    36.04    37.09

BUILDLEN EMGEN5          52.59    50.35    51.77    97.94    89.85    81.61
BUILDLEN EMGEN5          70.89    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN5          29.81    26.57    31.07    34.63    37.14    38.52
BUILDLEN EMGEN5          52.59    50.35    51.77    97.94    89.85    81.61
BUILDLEN EMGEN5          70.89    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN5          20.36    24.63    28.15    40.38    37.14    38.52

BUILDLEN EMGEN6          40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN6         124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN6          29.81    58.34    54.10    69.02    83.51    41.49
BUILDLEN EMGEN6          40.15    37.84    37.35    39.59    41.42    43.11
BUILDLEN EMGEN6         124.12    39.92    38.80    37.03    34.14    30.21
BUILDLEN EMGEN6          29.81    58.34    27.03    30.17    32.40    41.49

BUILDLEN EMGEN7          40.15    37.84    37.35     7.76    40.99    41.90
BUILDLEN EMGEN7          41.54    39.92    38.80    37.03    37.32    74.35
BUILDLEN EMGEN7          63.58    58.34    54.10    69.02    83.51    41.49
BUILDLEN EMGEN7         104.51   110.39   112.91     7.76    40.99    41.90
BUILDLEN EMGEN7          41.54    39.92    38.80    37.03   121.85    74.35
BUILDLEN EMGEN7          63.58    58.34    54.10    69.02    83.51    41.49

BUILDLEN EMGEN8          37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN8          44.12    43.79   114.17   103.89    20.69    19.68
BUILDLEN EMGEN8          18.74    23.24    27.03    33.90    36.04    37.09
BUILDLEN EMGEN8          37.01    35.80    30.36    47.88    31.96    32.07
BUILDLEN EMGEN8          31.21    29.40    26.70    23.19    20.69    19.68
BUILDLEN EMGEN8          18.74    23.24    27.03    33.90    36.04    37.09

XBADJ    EMGEN1         −47.54   −51.45   −53.79   −22.12   −13.00    −6.06
XBADJ    EMGEN1           1.06     8.16    15.00    21.39    27.13    32.04
XBADJ    EMGEN1          33.01    30.04    26.16    21.48    16.15    10.33
XBADJ    EMGEN1          −5.05     1.09     2.02   −75.82   −76.85   −75.55
XBADJ    EMGEN1         −71.96   −48.07   −53.80   −58.42   −61.27   −62.25
XBADJ    EMGEN1        −137.38  −143.28  −144.82  −151.53   −53.29   −48.85

XBADJ    EMGEN2         −81.78   −83.55   −82.79   −83.37   −82.21   −78.56
XBADJ    EMGEN2         −72.53   −93.15   −97.43   −98.75   −97.06   −92.43
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XBADJ	EMGEN2	−87.96	−1.41	−0.95	−6.88	29.34	36.03
XBADJ	EMGEN2	41.63	45.72	45.44	43.78	40.79	35.46
XBADJ	EMGEN2	−51.59	53.24	58.63	61.71	62.92	62.22
XBADJ	EMGEN2	58.16	−56.93	−132.50	−135.70	−70.91	−77.52
XBADJ	EMGEN3	−121.76	−121.70	−117.94	−5.55	−90.36	−96.60
XBADJ	EMGEN3	−99.91	−100.18	−97.41	−91.68	−15.23	5.19
XBADJ	EMGEN3	21.51	29.70	34.22	31.28	27.38	76.63
XBADJ	EMGEN3	17.25	11.31	5.03	−2.21	49.37	54.70
XBADJ	EMGEN3	58.37	60.27	58.61	54.64	−75.23	−79.55
XBADJ	EMGEN3	−85.09	−88.04	−88.32	−100.29	−110.89	−118.12
XBADJ	EMGEN4	−75.36	−74.08	−16.67	−64.87	−22.50	−24.79
XBADJ	EMGEN4	−228.73	−229.48	−223.26	−210.26	−24.39	−21.95
XBADJ	EMGEN4	−19.49	−21.01	−21.89	31.75	35.04	37.26
XBADJ	EMGEN4	38.35	38.28	−13.68	16.99	−9.46	−7.28
XBADJ	EMGEN4	−4.88	−2.33	0.29	2.90	3.70	2.27
XBADJ	EMGEN4	0.75	−2.23	−5.13	−65.65	−71.08	−74.35
XBADJ	EMGEN5	−47.75	−51.40	−53.49	−21.57	−12.22	−5.08
XBADJ	EMGEN5	2.22	9.45	16.40	22.85	28.60	33.48
XBADJ	EMGEN5	34.38	31.29	27.25	22.39	16.85	10.79
XBADJ	EMGEN5	−4.84	1.05	1.72	−76.37	−77.63	−76.54
XBADJ	EMGEN5	−73.12	−49.37	−55.20	−59.88	−62.74	−63.69
XBADJ	EMGEN5	−138.75	−144.53	−145.92	−152.44	−53.99	−49.31
XBADJ	EMGEN6	−82.62	−84.67	−84.15	−84.93	−83.93	−80.38
XBADJ	EMGEN6	−74.39	−95.01	−99.22	−100.42	−98.56	−93.71
XBADJ	EMGEN6	−88.99	−2.15	−1.38	−6.99	−12.38	36.57
XBADJ	EMGEN6	42.47	46.84	46.80	45.34	42.51	37.28
XBADJ	EMGEN6	−49.72	55.09	60.42	63.38	64.42	63.50
XBADJ	EMGEN6	59.18	−56.19	−132.07	−135.60	−135.00	−78.06
XBADJ	EMGEN7	−122.45	−122.62	−119.05	−6.83	−91.76	−98.09
XBADJ	EMGEN7	−101.43	−101.69	−98.86	−93.03	−87.54	4.16
XBADJ	EMGEN7	20.69	29.11	33.88	31.20	27.58	77.08
XBADJ	EMGEN7	17.94	12.23	6.14	−0.94	50.77	56.18
XBADJ	EMGEN7	59.89	61.77	60.06	55.99	−208.19	−78.52
XBADJ	EMGEN7	−84.27	−87.46	−87.99	−100.22	−111.08	−118.57
XBADJ	EMGEN8	−76.93	−75.78	−18.46	−66.68	−24.28	−26.49
XBADJ	EMGEN8	−230.29	−230.86	−224.42	−211.16	−25.01	−22.26
XBADJ	EMGEN8	−19.49	−20.69	−21.27	32.66	36.20	38.65
XBADJ	EMGEN8	39.92	39.98	−11.90	18.80	−7.68	−5.58
XBADJ	EMGEN8	−3.31	−0.95	1.45	3.80	4.32	2.58
XBADJ	EMGEN8	0.74	−2.55	−5.76	−66.56	−72.25	−75.74
YBADJ	EMGEN1	36.12	32.94	28.76	−33.87	−30.37	−25.95
YBADJ	EMGEN1	−19.22	−39.24	−33.82	−27.38	−20.10	−11.34
YBADJ	EMGEN1	−1.41	7.50	14.89	21.83	28.11	33.54
YBADJ	EMGEN1	−36.12	−32.94	−28.76	33.87	30.37	25.95
YBADJ	EMGEN1	19.22	39.24	33.82	27.38	20.10	11.34
YBADJ	EMGEN1	32.83	10.22	−12.70	−36.64	−28.11	−33.54
YBADJ	EMGEN2	22.66	11.60	0.19	−10.95	−22.06	−32.49
YBADJ	EMGEN2	−27.63	33.67	20.38	6.48	−7.61	−20.61
YBADJ	EMGEN2	−32.16	−22.67	−16.82	−10.47	−42.39	−33.02

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   YBADJ        EMGEN2           −22.66    −11.60     −0.19     10.95     22.06     32.49
   YBADJ        EMGEN2            27.63    −33.67    −20.38     −6.48      7.61     20.61
   YBADJ        EMGEN2            32.16     22.67     19.61     −1.38     42.39     33.02

   YBADJ        EMGEN3            15.59     −2.31    −20.13     −3.82     34.81     21.62
   YBADJ        EMGEN3             7.77     −6.32    −20.22    −33.50    −66.50    −61.48
   YBADJ        EMGEN3           −56.53    −48.75    −37.11    −24.34    −10.82    −33.00
   YBADJ        EMGEN3            16.76     30.00     42.37      3.82    −34.81    −21.62
   YBADJ        EMGEN3            −7.77      6.32     20.22     33.50     66.50     61.48
   YBADJ        EMGEN3            56.53     48.75     37.11     24.34     10.82     33.00

   YBADJ        EMGEN4             0.45     −9.15     10.47     −9.60      9.39      8.38
   YBADJ        EMGEN4            23.52    −12.78    −21.70    −50.93      0.36     −1.50
   YBADJ        EMGEN4            −4.09     −6.52     −8.76    −28.03    −19.33    −10.04
   YBADJ        EMGEN4            −0.45      9.15    −10.47      9.60     −9.39     −8.38
   YBADJ        EMGEN4            −7.11     −5.63     −3.97     −2.20     −0.36      1.50
   YBADJ        EMGEN4             4.09      6.52      8.76     28.03     19.33     10.04

   YBADJ        EMGEN5            34.66     31.47     27.32    −35.24    −31.62    −27.04
   YBADJ        EMGEN5           −20.14    −39.94    −34.28    −27.59    −20.06    −11.04
   YBADJ        EMGEN5            −0.87      8.27     15.87     22.99     29.41     34.94
   YBADJ        EMGEN5           −34.66    −31.47    −27.32     35.24     31.62     27.04
   YBADJ        EMGEN5            20.14     39.94     34.28     27.59     20.06     11.04
   YBADJ        EMGEN5            32.28      9.44    −13.68    −37.80    −29.41    −34.94

   YBADJ        EMGEN6            24.33     13.10      1.47     −9.92    −21.32    −32.07
   YBADJ        EMGEN6           −27.52     33.45     19.84      5.64     −8.73    −21.98
   YBADJ        EMGEN6           −33.72    −24.39    −18.64    −12.33     −5.65    −34.81
   YBADJ        EMGEN6           −24.33    −13.10     −1.47      9.92     21.32     32.07
   YBADJ        EMGEN6            27.52    −33.45    −19.84     −5.64      8.73     21.98
   YBADJ        EMGEN6            33.72     24.39     21.43      0.49    −20.48     34.81

   YBADJ        EMGEN7            16.94     −1.10    −19.10     −3.00     35.40     21.95
   YBADJ        EMGEN7             7.84     −6.51    −20.67    −34.19    −14.24    −62.60
   YBADJ        EMGEN7           −57.80    −50.15    −38.59    −25.85    −12.33    −34.45
   YBADJ        EMGEN7            15.41     28.79     41.34      3.00    −35.40    −21.95
   YBADJ        EMGEN7            −7.84      6.51     20.67     34.19     44.50     62.60
   YBADJ        EMGEN7            57.80     50.15     38.59     25.85     12.33     34.45

   YBADJ        EMGEN8             1.35     −8.54     10.78     −9.60      9.07      7.76
   YBADJ        EMGEN8            22.61    −13.95    −23.09    −52.50     −1.35     −3.28
   YBADJ        EMGEN8            −5.90     −8.30    −10.46    −29.60    −20.71    −11.21
   YBADJ        EMGEN8            −1.35      8.54    −10.78      9.60     −9.07     −7.76
   YBADJ        EMGEN8            −6.20     −4.46     −2.58     −0.63      1.35      3.28
   YBADJ        EMGEN8             5.90      8.30     10.46     29.60     20.71     11.20

   SRCGROUP EMGEN1      EMGEN1
   SRCGROUP EMGEN2      EMGEN2
   SRCGROUP EMGEN3      EMGEN3
   SRCGROUP EMGEN4      EMGEN4
   SRCGROUP EMGEN5      EMGEN5
   SRCGROUP EMGEN6      EMGEN6
   SRCGROUP EMGEN7      EMGEN7
   SRCGROUP EMGEN8      EMGEN8
   SRCGROUP INNESN      L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
   SRCGROUP INNESN      L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
   SRCGROUP INNESN      L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
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SRCGROUP INNESN    L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP INNESN    L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP INNESN    L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP INNESN    L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP INNESN    L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP INNESN    L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
SRCGROUP INNESN    L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
SRCGROUP INNESN    L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
SRCGROUP INNESN    L0000073 L0000074
SRCGROUP HAWES     L0000688 L0000689 L0000690 L0000691
SRCGROUP HUNT      L0000692 L0000693 L0000694 L0000695 L0000696 L0000697
SRCGROUP HUNT      L0000698 L0000699 L0000700 L0000701 L0000702 L0000703
SRCGROUP HUNT      L0000704 L0000705 L0000706 L0000707 L0000708 L0000709
SRCGROUP HUNT      L0000710 L0000711 L0000712 L0000713 L0000714 L0000715
SRCGROUP HUNT      L0000716 L0000717 L0000718 L0000719 L0000720 L0000721
SRCGROUP HUNT      L0000722 L0000723
SRCGROUP EVANS     L0000724 L0000725 L0000726 L0000727 L0000728 L0000729
SRCGROUP EVANS     L0000730 L0000731 L0000732 L0000733 L0000734 L0000735
SRCGROUP EVANS     L0000736 L0000737
SRCGROUP JENN      L0000738 L0000739 L0000740 L0000741 L0000742 L0000743
SRCGROUP JENN      L0000744 L0000745
SRCGROUP MIDDLE    L0000746 L0000747 L0000748 L0000749 L0000750 L0000751
SRCGROUP MIDDLE    L0000752 L0000753 L0000754 L0000755 L0000756 L0000757
SRCGROUP MIDDLE    L0000758 L0000759 L0000760 L0000761 L0000762 L0000763
SRCGROUP MIDDLE    L0000764 L0000765 L0000766 L0000767 L0000768 L0000769
SRCGROUP MIDDLE    L0000770 L0000771 L0000772 L0000773 L0000774
SRCGROUP GRIFF     L0000775 L0000776 L0000777
SRCGROUP NHUD      L0000778 L0000779 L0000780 L0000781 L0000782 L0000783
SRCGROUP NHUD      L0000784 L0000785 L0000786 L0000787 L0000788 L0000789
SRCGROUP NHUD      L0000790 L0000791 L0000792 L0000793 L0000794 L0000795
SRCGROUP NHUD      L0000796 L0000797 L0000798 L0000799 L0000800 L0000801
SRCGROUP NHUD      L0000802 L0000803 L0000804 L0000805 L0000806 L0000807
SRCGROUP NHUD      L0000808 L0000809 L0000810 L0000811 L0000812 L0000813
SRCGROUP NHUD      L0000814 L0000815 L0000816 L0000817 L0000818 L0000819
SRCGROUP NHUD      L0000820
SRCGROUP ARELI     L0000821 L0000822 L0000823 L0000824 L0000825 L0000826
SRCGROUP EARLN     L0000827 L0000828 L0000829 L0000830 L0000831 L0000832
SRCGROUP EARLN     L0000833 L0000834 L0000835 L0000836 L0000837 L0000838
SRCGROUP EARLN     L0000839 L0000840 L0000841 L0000842 L0000843 L0000844
SRCGROUP EARLN     L0000845 L0000846 L0000847 L0000848 L0000849 L0000850
SRCGROUP EARLN     L0000851 L0000852 L0000853 L0000854 L0000855 L0000856
SRCGROUP EARLN     L0000857 L0000858 L0000859 L0000860 L0000861 L0000862
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SRCGROUP DONS      L0000867 L0000868 L0000869 L0000870 L0000871 L0000872
SRCGROUP DONS      L0000873 L0000874 L0000875 L0000876 L0000877 L0000878
SRCGROUP DONS      L0000879 L0000880 L0000881 L0000882 L0000883 L0000884
SRCGROUP DONS      L0000885 L0000886 L0000887 L0000888 L0000889 L0000890
SRCGROUP DONS      L0000891 L0000892 L0000893
SRCGROUP GALVEZ    L0000894 L0000895 L0000896 L0000897 L0000898 L0000899
SRCGROUP INNESS    L0000900 L0000901 L0000902 L0000903 L0000904 L0000905
SRCGROUP INNESS    L0000906 L0000907 L0000908 L0000909 L0000910 L0000911
SRCGROUP INNESS    L0000912 L0000913
SRCGROUP HUDSON    L0000914 L0000915 L0000916 L0000917 L0000918 L0000919
SRCGROUP HUDSON    L0000920 L0000921 L0000922 L0000923 L0000924 L0000925
SRCGROUP HUDSON    L0000926 L0000927 L0000928 L0000929 L0000930
SRCGROUP KIRKS     L0000931 L0000932 L0000933 L0000934 L0000935 L0000936
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    SRCGROUP KIRKS      L0000943
    SRCGROUP FRIED      L0000944 L0000945 L0000946 L0000947 L0000948 L0000949
    SRCGROUP FRIED      L0000950 L0000951 L0000952 L0000953 L0000954 L0000955
    SRCGROUP FRIED      L0000956 L0000957 L0000958 L0000959 L0000960 L0000961
    SRCGROUP FRIED      L0000962 L0000963 L0000964 L0000965 L0000966 L0000967
    SRCGROUP FRIED      L0000968
    SRCGROUP JERR       L0000969 L0000970 L0000971 L0000972 L0000973 L0000974
    SRCGROUP JERR       L0000975 L0000976 L0000977 L0000978 L0000979 L0000980
    SRCGROUP JERR       L0000981 L0000982 L0000983 L0000984 L0000985 L0000986
    SRCGROUP JERR       L0000987 L0000988 L0000989
    SRCGROUP NORTH      L0000990 L0000991 L0000992 L0000993 L0000994 L0000995
    SRCGROUP NORTH      L0000996 L0000997 L0000998 L0000999 L0001000 L0001001
    SRCGROUP NORTH      L0001002 L0001003 L0001004 L0001005 L0001006 L0001007
    SRCGROUP NORTH      L0001008 L0001009 L0001010 L0001011 L0001012 L0001013
    SRCGROUP NORTH      L0001014 L0001015 L0001016 L0001017 L0001018 L0001019
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    SRCGROUP NORTH      L0001026 L0001027 L0001028 L0001029 L0001030 L0001031
    SRCGROUP NORTH      L0001032 L0001033 L0001034 L0001035 L0001036 L0001037
    SRCGROUP NORTH      L0001038 L0001039 L0001040 L0001041 L0001042 L0001043
    SRCGROUP NORTH      L0001044 L0001045 L0001046 L0001047 L0001048 L0001049
    SRCGROUP NORTH      L0001050 L0001051 L0001052 L0001053 L0001054 L0001055
    SRCGROUP NORTH      L0001056 L0001057
    SRCGROUP EARLS      L0001058 L0001059 L0001060 L0001061 L0001062 L0001063
    SRCGROUP EARLS      L0001064 L0001065
    SRCGROUP KIRKN      L0001066 L0001067 L0001068 L0001069 L0001070 L0001071
    SRCGROUP KIRKN      L0001072 L0001073 L0001074 L0001075 L0001076 L0001077
    SRCGROUP KIRKN      L0001078 L0001079 L0001080 L0001081 L0001082 L0001083
    SRCGROUP KIRKN      L0001084 L0001085 L0001086 L0001087 L0001088 L0001089
    SRCGROUP KIRKN      L0001090 L0001091 L0001092 L0001093 L0001094 L0001095
    SRCGROUP KIRKN      L0001096 L0001097 L0001098 L0001099 L0001100 L0001101
    SRCGROUP KIRKN      L0001102 L0001103 L0001104 L0001105 L0001106 L0001107
    SRCGROUP KIRKN      L0001108 L0001109 L0001110 L0001111 L0001112 L0001113
    SRCGROUP KIRKN      L0001114 L0001115 L0001116 L0001117 L0001118 L0001119
    SRCGROUP KIRKN      L0001120 L0001121 L0001122 L0001123 L0001124 L0001125
    SRCGROUP KIRKN      L0001126 L0001127 L0001128 L0001129 L0001130 L0001131
    SRCGROUP KIRKN      L0001132
    SRCGROUP INGALLS    L0001133 L0001134 L0001135 L0001136 L0001137 L0001138
    SRCGROUP INGALLS    L0001139 L0001140 L0001141 L0001142 L0001143 L0001144
    SRCGROUP INGALLS    L0001145 L0001146 L0001147 L0001148 L0001149 L0001150
    SRCGROUP INGALLS    L0001151 L0001152 L0001153 L0001154 L0001155 L0001156
    SRCGROUP INGALLS    L0001157 L0001158 L0001159 L0001160 L0001161 L0001162
    SRCGROUP INGALLS    L0001163 L0001164 L0001165
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
    INCLUDED PRECON.ROU
RE FINISHED
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*****************************************
** AERMOD Meteorology Pathway
*****************************************
```

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ME STARTING
    SURFFILE mission_bay_2008.SFC
    PROFFILE mission_bay_2008.PFL
    SURFDATA 23234 2008
    UAIRDATA 23230 2008
    PROFBASE 2.0 METERS
ME FINISHED
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** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
OU RECTABLE ALLAVE 1
    PLOTFILE 1 EMGEN1 1ST Plots\EMGEN1_1hr_OpsEV.PLT
    PLOTFILE 1 EMGEN2 1ST Plots\EMGEN2_1hr_OpsEV.PLT
    PLOTFILE 1 EMGEN3 1ST Plots\EMGEN3_1hr_OpsEV.PLT
    PLOTFILE 1 EMGEN4 1ST Plots\EMGEN4_1hr_OpsEV.PLT
    PLOTFILE 1 EMGEN5 1ST Plots\EMGEN5_1hr_OpsEV.PLT
    PLOTFILE 1 EMGEN6 1ST Plots\EMGEN6_1hr_OpsEV.PLT
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    PLOTFILE 1 EMGEN8 1ST Plots\EMGEN8_1hr_OpsEV.PLT
    PLOTFILE 1 INNESN 1ST Plots\INNESN_1hr_OpsEV.PLT
    PLOTFILE 1 HAWES 1ST Plots\HAWES_1hr_OpsEV.PLT
    PLOTFILE 1 HUNT 1ST Plots\HUNT_1hr_OpsEV.PLT
    PLOTFILE 1 EVANS 1ST Plots\EVANS_1hr_OpsEV.PLT
    PLOTFILE 1 JENN 1ST Plots\JENN_1hr_OpsEV.PLT
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    PLOTFILE 1 EARLN 1ST Plots\EARLN_1hr_OpsEV.PLT
    PLOTFILE 1 DONS 1ST Plots\DONS_1hr_OpsEV.PLT
    PLOTFILE 1 GALVEZ 1ST Plots\GALVEZ_1hr_OpsEV.PLT
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    PLOTFILE 1 HUDSON 1ST Plots\HUDSON_1hr_OpsEV.PLT
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    PLOTFILE 1 INGALLS 1ST Plots\INGALLS_1hr_OpsEV.PLT
    PLOTFILE PERIOD EMGEN1 Plots\EMGEN1_Ann_OpsEV.PLT
    PLOTFILE PERIOD EMGEN2 Plots\EMGEN2_Ann_OpsEV.PLT
    PLOTFILE PERIOD EMGEN3 Plots\EMGEN3_Ann_OpsEV.PLT
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    PLOTFILE PERIOD INNESN Plots\INNESN_Ann_OpsEV.PLT
    PLOTFILE PERIOD HAWES Plots\HAWES_Ann_OpsEV.PLT
    PLOTFILE PERIOD HUNT Plots\HUNT_Ann_OpsEV.PLT
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    PLOTFILE PERIOD EVANS Plots\EVANS_Ann_OpsEV.PLT
    PLOTFILE PERIOD JENN Plots\JENN_Ann_OpsEV.PLT
    PLOTFILE PERIOD MIDDLE Plots\MIDDLE_Ann_OpsEV.PLT
    PLOTFILE PERIOD GRIFF Plots\GRIFF_Ann_OpsEV.PLT
    PLOTFILE PERIOD NHUD Plots\NHUD_Ann_OpsEV.PLT
    PLOTFILE PERIOD ARELI Plots\ARELI_Ann_OpsEV.PLT
    PLOTFILE PERIOD EARLN Plots\EARLN_Ann_OpsEV.PLT
    PLOTFILE PERIOD DONS Plots\DONS_Ann_OpsEV.PLT
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    PLOTFILE PERIOD INNESS Plots\INNESS_Ann_OpsEV.PLT
    PLOTFILE PERIOD HUDSON Plots\HUDSON_Ann_OpsEV.PLT
    PLOTFILE PERIOD KIRKS Plots\KIRKS_Ann_OpsEV.PLT
    PLOTFILE PERIOD FRIED Plots\FRIED_Ann_OpsEV.PLT
    PLOTFILE PERIOD JERR Plots\JERR_Ann_OpsEV.PLT
    PLOTFILE PERIOD NORTH Plots\NORTH_Ann_OpsEV.PLT
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    PLOTFILE PERIOD KIRKN Plots\KIRKN_Ann_OpsEV.PLT
    PLOTFILE PERIOD INGALLS Plots\INGALLS_Ann_OpsEV.PLT
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
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GRADE	0	0	9901	DieselExhPM	1	15.46	0	1
Phase1C1	0	0	9901	DieselExhPM	1	2.0116	0	1
Phase1C2	0	0	9901	DieselExhPM	1	0.6687	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.1516	0	1
Phase1C4	0	0	9901	DieselExhPM	1	0.7272	0	1
Phase1C5	0	0	9901	DieselExhPM	1	0.6914	0	1
Phase1C6	0	0	9901	DieselExhPM	1	0.417	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.2261	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.2167	0	1
Phase1C9	0	0	9901	DieselExhPM	1	0.1697	0	1
CONST	0	0	9901	DieselExhPM	1	68.62	0	1
CONST	0	0	75070	Acetaldehyde	1	0.04312	0	1
CONST	0	0	71432	Benzene	1	0.38038	0	1
CONST	0	0	106990	1,3-Butadiene	1	0.0847	0	1
CONST	0	0	100414	Ethyl benzene	1	0.1617	0	1
CONST	0	0	50000	Formaldehyde	1	0.24332	0	1
CONST	0	0	91203	Naphthalene	1	0.0077	0	1

GRADE	0	0	9901	DieselExhPM	1	15.46	0	1
Phase1C1	0	0	9901	DieselExhPM	1	1.6744	0	1
Phase1C2	0	0	9901	DieselExhPM	1	0.3719	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.1302	0	1
Phase1C4	0	0	9901	DieselExhPM	1	1.1415	0	1
Phase1C5	0	0	9901	DieselExhPM	1	1.4363	0	1
Phase1C6	0	0	9901	DieselExhPM	1	0.1941	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.186	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.1457	0	1
CONST	0	0	9901	DieselExhPM	1	68.62	0	1
CONST	0	0	75070	Acetaldehyde	1	0.04312	0	1
CONST	0	0	71432	Benzene	1	0.38038	0	1
CONST	0	0	106990	1,3-Butadiene	1	0.0847	0	1
CONST	0	0	100414	Ethyl benzene	1	0.1617	0	1
CONST	0	0	50000	Formaldehyde	1	0.24332	0	1
CONST	0	0	91203	Naphthalene	1	0.0077	0	1

GRADE	0	0	9901	DieselExhPM	1	5.18	0	1
Phase1C1	0	0	9901	DieselExhPM	1	5.4175	0	1
Phase1C2	0	0	9901	DieselExhPM	1	1.8008	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.4084	0	1
Phase1C4	0	0	9901	DieselExhPM	1	1.9585	0	1
Phase1C5	0	0	9901	DieselExhPM	1	1.8621	0	1
Phase1C6	0	0	9901	DieselExhPM	1	1.1231	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.6089	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.5837	0	1
Phase1C9	0	0	9901	DieselExhPM	1	0.457	0	1
RPD1	0	0	9901	DieselExhPM	1	18.7523	0	1
PILE	0	0	9901	DieselExhPM	1	0.559	0	1
CONST	0	0	9901	DieselExhPM	1	86.22	0	1
CONST	0	0	75070	Acetaldehyde	1	3.111976	0	1
CONST	0	0	71432	Benzene	1	27.45207	0	1
CONST	0	0	106990	1,3-Butadiene	1	6.11281	0	1
CONST	0	0	100414	Ethyl benzene	1	11.66991	0	1
CONST	0	0	50000	Formaldehyde	1	17.56044	0	1
CONST	0	0	91203	Naphthalene	1	0.55571	0	1

GRADE	0	0	9901	DieselExhPM	1	5.18	0	1
Phase1C1	0	0	9901	DieselExhPM	1	4.5285	0	1
Phase1C2	0	0	9901	DieselExhPM	1	1.0058	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.352	0	1
Phase1C4	0	0	9901	DieselExhPM	1	3.0873	0	1
Phase1C5	0	0	9901	DieselExhPM	1	3.8845	0	1
Phase1C6	0	0	9901	DieselExhPM	1	0.5248	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.5031	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.3939	0	1
RPD1	0	0	9901	DieselExhPM	1	18.7523	0	1
PILE	0	0	9901	DieselExhPM	1	0.559	0	1
CONST	0	0	9901	DieselExhPM	1	97.42	0	1
CONST	0	0	75070	Acetaldehyde	1	2.144464	0	1
CONST	0	0	71432	Benzene	1	18.91724	0	1
CONST	0	0	106990	1,3-Butadiene	1	4.21234	0	1
CONST	0	0	100414	Ethyl benzene	1	8.04174	0	1
CONST	0	0	50000	Formaldehyde	1	12.1009	0	1
CONST	0	0	91203	Naphthalene	1	0.38294	0	1

Phase1C1	0	0	9901	DieselExhPM	1	5.2499	0	1
Phase1C2	0	0	9901	DieselExhPM	1	1.7451	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.3958	0	1
Phase1C4	0	0	9901	DieselExhPM	1	1.8979	0	1
Phase1C5	0	0	9901	DieselExhPM	1	1.8045	0	1
Phase1C6	0	0	9901	DieselExhPM	1	1.0884	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.59	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.5656	0	1
Phase1C9	0	0	9901	DieselExhPM	1	0.4429	0	1
BIGGRN	0	0	9901	DieselExhPM	1	6.5	0	1
SHORE	0	0	9901	DieselExhPM	1	3.4517	0	1
RPD2	0	0	9901	DieselExhPM	1	13.92	0	1
PILE	0	0	9901	DieselExhPM	1	2.5374	0	1
Phase2C1	0	0	9901	DieselExhPM	1	0.3453	0	1
Phase2C2	0	0	9901	DieselExhPM	1	0.2202	0	1
Phase2C3	0	0	9901	DieselExhPM	1	0.8285	0	1
Phase2C4	0	0	9901	DieselExhPM	1	0.2761	0	1
Phase2C5	0	0	9901	DieselExhPM	1	0.3236	0	1
Phase2C6	0	0	9901	DieselExhPM	1	0.2888	0	1
Phase2C7	0	0	9901	DieselExhPM	1	0.5775	0	1
CONST	0	0	9901	DieselExhPM	1	39.24	0	1
CONST	0	0	75070	Acetaldehyde	1	2.708944	0	1
CONST	0	0	71432	Benzene	1	23.89676	0	1
CONST	0	0	106990	1,3-Butadiene	1	5.32114	0	1
CONST	0	0	100414	Ethyl benzene	1	10.15854	0	1
CONST	0	0	50000	Formaldehyde	1	15.28618	0	1
CONST	0	0	91203	Naphthalene	1	0.48374	0	1

Phase1C1	0	0	9901	DieselExhPM	1	4.0908	0	1
Phase1C2	0	0	9901	DieselExhPM	1	0.9086	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.318	0	1
Phase1C4	0	0	9901	DieselExhPM	1	2.7889	0	1
Phase1C5	0	0	9901	DieselExhPM	1	3.5091	0	1
Phase1C6	0	0	9901	DieselExhPM	1	0.4741	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.4545	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.3559	0	1
BIGGRN	0	0	9901	DieselExhPM	1	6.5	0	1
SHORE	0	0	9901	DieselExhPM	1	3.4517	0	1
RPD2	0	0	9901	DieselExhPM	1	13.92	0	1
PILE	0	0	9901	DieselExhPM	1	2.5374	0	1
Phase2C1	0	0	9901	DieselExhPM	1	0.3453	0	1
Phase2C2	0	0	9901	DieselExhPM	1	0.2202	0	1
Phase2C3	0	0	9901	DieselExhPM	1	0.8285	0	1
Phase2C4	0	0	9901	DieselExhPM	1	0.2761	0	1
Phase2C5	0	0	9901	DieselExhPM	1	0.3236	0	1
Phase2C6	0	0	9901	DieselExhPM	1	0.2888	0	1
Phase2C7	0	0	9901	DieselExhPM	1	0.5775	0	1
CONST	0	0	9901	DieselExhPM	1	44.04	0	1
CONST	0	0	75070	Acetaldehyde	1	1.815856	0	1
CONST	0	0	71432	Benzene	1	16.01844	0	1
CONST	0	0	106990	1,3-Butadiene	1	3.56686	0	1
CONST	0	0	100414	Ethyl benzene	1	6.80946	0	1
CONST	0	0	50000	Formaldehyde	1	10.24662	0	1
CONST	0	0	91203	Naphthalene	1	0.32426	0	1

Phase1C1	0	0	9901	DieselExhPM	1	0.0381	0	1
Phase1C2	0	0	9901	DieselExhPM	1	0.0127	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.0029	0	1
Phase1C4	0	0	9901	DieselExhPM	1	0.0138	0	1
Phase1C5	0	0	9901	DieselExhPM	1	0.0131	0	1
Phase1C6	0	0	9901	DieselExhPM	1	0.0079	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.0043	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.0041	0	1
Phase1C9	0	0	9901	DieselExhPM	1	0.0032	0	1
BIGGRN	0	0	9901	DieselExhPM	1	3.34	0	1
SHORE	0	0	9901	DieselExhPM	1	8.9552	0	1
Phase2C1	0	0	9901	DieselExhPM	1	1.6973	0	1
Phase2C2	0	0	9901	DieselExhPM	1	1.0826	0	1
Phase2C3	0	0	9901	DieselExhPM	1	4.0728	0	1
Phase2C4	0	0	9901	DieselExhPM	1	1.3576	0	1
Phase2C5	0	0	9901	DieselExhPM	1	1.5910	0	1
Phase2C6	0	0	9901	DieselExhPM	1	1.4196	0	1
Phase2C7	0	0	9901	DieselExhPM	1	2.8390	0	1
BEACH	0	0	9901	DieselExhPM	1	1.8400	0	1
EMGEN1	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN2	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN3	0	0	9901	DieselExhPM	1	0.3621	0	1
EMGEN5	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN6	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN7	0	0	9901	DieselExhPM	1	0.3621	0	1
CONST	0	0	9901	DieselExhPM	1	5.2	0	1
CONST	0	0	75070	Acetaldehyde	1	1.177904	0	1
CONST	0	0	71432	Benzene	1	10.3908	0	1
CONST	0	0	106990	1,3-Butadiene	1	2.31374	0	1
CONST	0	0	100414	Ethyl benzene	1	4.41714	0	1
CONST	0	0	50000	Formaldehyde	1	6.646744	0	1
CONST	0	0	91203	Naphthalene	1	0.21034	0	1

Phase1C1	0	0	9901	DieselExhPM	1	0.0317	0	1
Phase1C2	0	0	9901	DieselExhPM	1	0.007	0	1
Phase1C3	0	0	9901	DieselExhPM	1	0.0025	0	1
Phase1C4	0	0	9901	DieselExhPM	1	0.0216	0	1
Phase1C5	0	0	9901	DieselExhPM	1	0.0272	0	1
Phase1C6	0	0	9901	DieselExhPM	1	0.0037	0	1
Phase1C7	0	0	9901	DieselExhPM	1	0.0035	0	1
Phase1C8	0	0	9901	DieselExhPM	1	0.0028	0	1
BIGGRN	0	0	9901	DieselExhPM	1	3.34	0	1
SHORE	0	0	9901	DieselExhPM	1	8.9552	0	1
Phase2C1	0	0	9901	DieselExhPM	1	1.6973	0	1
Phase2C2	0	0	9901	DieselExhPM	1	1.0826	0	1
Phase2C3	0	0	9901	DieselExhPM	1	4.0728	0	1
Phase2C4	0	0	9901	DieselExhPM	1	1.3576	0	1
Phase2C5	0	0	9901	DieselExhPM	1	1.591	0	1
Phase2C6	0	0	9901	DieselExhPM	1	1.4196	0	1
Phase2C7	0	0	9901	DieselExhPM	1	2.839	0	1
BEACH	0	0	9901	DieselExhPM	1	1.8400	0	1
EMGEN1	0	0	9901	DieselExhPM	1	0.7242	0	1
EMGEN2	0	0	9901	DieselExhPM	1	0.7242	0	1
EMGEN3	0	0	9901	DieselExhPM	1	0.3621	0	1
EMGEN5	0	0	9901	DieselExhPM	1	0.7242	0	1
EMGEN6	0	0	9901	DieselExhPM	1	0.7242	0	1
EMGEN7	0	0	9901	DieselExhPM	1	0.3621	0	1
CONST	0	0	9901	DieselExhPM	1	5.2800	0	1
CONST	0	0	75070	Acetaldehyde	1	1.173592	0	1
CONST	0	0	71432	Benzene	1	10.35276	0	1
CONST	0	0	106990	1,3-Butadiene	1	2.30527	0	1
CONST	0	0	100414	Ethyl benzene	1	4.40097	0	1
CONST	0	0	50000	Formaldehyde	1	6.622412	0	1
CONST	0	0	91203	Naphthalene	1	0.20957	0	1

Phase2C1	0	0	9901	DieselExhPM	1	1.1831	0	1
Phase2C2	0	0	9901	DieselExhPM	1	0.7546	0	1
Phase2C3	0	0	9901	DieselExhPM	1	2.8388	0	1
Phase2C4	0	0	9901	DieselExhPM	1	0.9462	0	1
Phase2C5	0	0	9901	DieselExhPM	1	1.1089	0	1
Phase2C6	0	0	9901	DieselExhPM	1	0.9895	0	1
Phase2C7	0	0	9901	DieselExhPM	1	1.9788	0	1
BEACH	0	0	9901	DieselExhPM	1	8.68	0	1
EMGEN1	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN2	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN3	0	0	9901	DieselExhPM	1	0.3621	0	1
EMGEN5	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN6	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN7	0	0	9901	DieselExhPM	1	0.3621	0	1
CONST	0	0	9901	DieselExhPM	1	2.74	0	1
CONST	0	0	75070	Acetaldehyde	1	0.693112	0	1
CONST	0	0	71432	Benzene	1	6.114238	0	1
CONST	0	0	106990	1,3-Butadiene	1	1.36147	0	1
CONST	0	0	100414	Ethyl benzene	1	2.59917	0	1
CONST	0	0	50000	Formaldehyde	1	3.911132	0	1
CONST	0	0	91203	Naphthalene	1	0.12377	0	1

Phase2C1	0	0	9901	DieselExhPM	1	1.1831	0
Phase2C2	0	0	9901	DieselExhPM	1	0.7546	0
Phase2C3	0	0	9901	DieselExhPM	1	2.8388	0
Phase2C4	0	0	9901	DieselExhPM	1	0.9462	0
Phase2C5	0	0	9901	DieselExhPM	1	1.1089	0
Phase2C6	0	0	9901	DieselExhPM	1	0.9895	0
Phase2C7	0	0	9901	DieselExhPM	1	1.9788	0
BEACH	0	0	9901	DieselExhPM	1	8.68	0
EMGEN1	0	0	9901	DieselExhPM	1	0.7242	0
EMGEN2	0	0	9901	DieselExhPM	1	0.7242	0
EMGEN3	0	0	9901	DieselExhPM	1	0.3621	0
EMGEN5	0	0	9901	DieselExhPM	1	0.7242	0
EMGEN6	0	0	9901	DieselExhPM	1	0.7242	0
EMGEN7	0	0	9901	DieselExhPM	1	0.3621	0
CONST	0	0	9901	DieselExhPM	1	2.78	0
CONST	0	0	75070	Acetaldehyde	1	0.697032	0
CONST	0	0	71432	Benzene	1	6.148818	0
CONST	0	0	106990	1,3-Butadiene	1	1.36917	0
CONST	0	0	100414	Ethyl benzene	1	2.61387	0
CONST	0	0	50000	Formaldehyde	1	3.933252	0
CONST	0	0	91203	Naphthalene	1	0.12447	0

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EMGEN1	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN2	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN3	0	0	9901	DieselExhPM	1	0.3621	0	1
EMGEN4	0	0	9901	DieselExhPM	1	0.3621	0	1
EMGEN5	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN6	0	0	9901	DieselExhPM	1	0.6035	0	1
EMGEN7	0	0	9901	DieselExhPM	1	0.3621	0	1
EMGEN8	0	0	9901	DieselExhPM	1	0.3621	0	1
INNESN	0	0	9901	DieselExhPM	1	0.59423	0	1
HUNT	0	0	9901	DieselExhPM	1	0.349156	0	1
EVANS	0	0	9901	DieselExhPM	1	0.152756	0	1
GRIFF	0	0	9901	DieselExhPM	1	0.123798	0	1
NHUD	0	0	9901	DieselExhPM	1	0.22319	0	1
ARELI	0	0	9901	DieselExhPM	1	0.256792	0	1
EARLN	0	0	9901	DieselExhPM	1	0.22319	0	1
DONS	0	0	9901	DieselExhPM	1	0.004468	0	1
GALVEZ	0	0	9901	DieselExhPM	1	0.000993	0	1
INNESS	0	0	9901	DieselExhPM	1	0.002317	0	1
HUDSON	0	0	9901	DieselExhPM	1	0.002813	0	1
KIRKS	0	0	9901	DieselExhPM	1	0.002151	0	1
FRIED	0	0	9901	DieselExhPM	1	0.004137	0	1
JERR	0	0	9901	DieselExhPM	1	0.00331	0	1
NORTH	0	0	9901	DieselExhPM	1	0.011254	0	1
EARLS	0	0	9901	DieselExhPM	1	0.001324	0	1
KIRKN	0	0	9901	DieselExhPM	1	0.011088	0	1
INGALLS	0	0	9901	DieselExhPM	1	0.005461	0	1
JENN	0	0	9901	DieselExhPM	1	0.004245	0	1
MIDDLE	0	0	9901	DieselExhPM	1	0.004799	0	1
HAWES	0	0	9901	DieselExhPM	1	0	0	1
INNESN	0	0	75070	Acetaldehyde	1	0.823311	0	1
INNESN	0	0	71432	Benzene	1	7.262778	0	1
INNESN	0	0	106990	1,3-Butadiene	1	1.617218	0	1
INNESN	0	0	100414	Ethyl benzene	1	3.087416	0	1
INNESN	0	0	50000	Formaldehyde	1	4.645825	0	1
INNESN	0	0	91203	Naphthalene	1	0.14702	0	1
HUNT	0	0	75070	Acetaldehyde	1	0.483759	0	1
HUNT	0	0	71432	Benzene	1	4.267446	0	1
HUNT	0	0	106990	1,3-Butadiene	1	0.950241	0	1
HUNT	0	0	100414	Ethyl benzene	1	1.814096	0	1
HUNT	0	0	50000	Formaldehyde	1	2.729783	0	1
HUNT	0	0	91203	Naphthalene	1	0.086386	0	1
EVANS	0	0	75070	Acetaldehyde	1	0.211645	0	1
EVANS	0	0	71432	Benzene	1	1.867008	0	1
EVANS	0	0	106990	1,3-Butadiene	1	0.41573	0	1
EVANS	0	0	100414	Ethyl benzene	1	0.793667	0	1
EVANS	0	0	50000	Formaldehyde	1	1.19428	0	1
EVANS	0	0	91203	Naphthalene	1	0.037794	0	1

GRIFF	0	0	75070	Acetaldehyde	1	0.171523	0	1
GRIFF	0	0	71432	Benzene	1	1.513079	0	1
GRIFF	0	0	106990	1,3-Butadiene	1	0.33692	0	1
GRIFF	0	0	100414	Ethyl benzene	1	0.643212	0	1
GRIFF	0	0	50000	Formaldehyde	1	0.96788	0	1
GRIFF	0	0	91203	Naphthalene	1	0.030629	0	1
NHUD	0	0	75070	Acetaldehyde	1	0.309232	0	1
NHUD	0	0	71432	Benzene	1	2.727865	0	1
NHUD	0	0	106990	1,3-Butadiene	1	0.607419	0	1
NHUD	0	0	100414	Ethyl benzene	1	1.159619	0	1
NHUD	0	0	50000	Formaldehyde	1	1.74495	0	1
NHUD	0	0	91203	Naphthalene	1	0.05522	0	1
ARELI	0	0	75070	Acetaldehyde	1	0.355788	0	1
ARELI	0	0	71432	Benzene	1	3.138557	0	1
ARELI	0	0	106990	1,3-Butadiene	1	0.698869	0	1
ARELI	0	0	100414	Ethyl benzene	1	1.334205	0	1
ARELI	0	0	50000	Formaldehyde	1	2.00766	0	1
ARELI	0	0	91203	Naphthalene	1	0.063534	0	1
EARLN	0	0	75070	Acetaldehyde	1	0.309232	0	1
EARLN	0	0	71432	Benzene	1	2.727865	0	1
EARLN	0	0	106990	1,3-Butadiene	1	0.607419	0	1
EARLN	0	0	100414	Ethyl benzene	1	1.159619	0	1
EARLN	0	0	50000	Formaldehyde	1	1.74495	0	1
EARLN	0	0	91203	Naphthalene	1	0.05522	0	1
DONS	0	0	75070	Acetaldehyde	1	0.006191	0	1
DONS	0	0	71432	Benzene	1	0.054614	0	1
DONS	0	0	106990	1,3-Butadiene	1	0.012161	0	1
DONS	0	0	100414	Ethyl benzene	1	0.023216	0	1
DONS	0	0	50000	Formaldehyde	1	0.034935	0	1
DONS	0	0	91203	Naphthalene	1	0.001106	0	1
GALVEZ	0	0	75070	Acetaldehyde	1	0.001376	0	1
GALVEZ	0	0	71432	Benzene	1	0.012136	0	1
GALVEZ	0	0	106990	1,3-Butadiene	1	0.002702	0	1
GALVEZ	0	0	100414	Ethyl benzene	1	0.005159	0	1
GALVEZ	0	0	50000	Formaldehyde	1	0.007763	0	1
GALVEZ	0	0	91203	Naphthalene	1	0.000246	0	1
INNESS	0	0	75070	Acetaldehyde	1	0.00321	0	1
INNESS	0	0	71432	Benzene	1	0.028318	0	1
INNESS	0	0	106990	1,3-Butadiene	1	0.006306	0	1
INNESS	0	0	100414	Ethyl benzene	1	0.012038	0	1
INNESS	0	0	50000	Formaldehyde	1	0.018114	0	1
INNESS	0	0	91203	Naphthalene	1	0.000573	0	1
HUDSON	0	0	75070	Acetaldehyde	1	0.003898	0	1
HUDSON	0	0	71432	Benzene	1	0.034386	0	1
HUDSON	0	0	106990	1,3-Butadiene	1	0.007657	0	1
HUDSON	0	0	100414	Ethyl benzene	1	0.014618	0	1
HUDSON	0	0	50000	Formaldehyde	1	0.021996	0	1

HUDSON	0	0	91203 Naphthalene	1	0.000696	0	1
KIRKS	0	0	75070 Acetaldehyde	1	0.002981	0	1
KIRKS	0	0	71432 Benzene	1	0.026295	0	1
KIRKS	0	0	106990 1,3-Butadiene	1	0.005855	0	1
KIRKS	0	0	100414 Ethyl benzene	1	0.011178	0	1
KIRKS	0	0	50000 Formaldehyde	1	0.016821	0	1
KIRKS	0	0	91203 Naphthalene	1	0.000532	0	1
FRIED	0	0	75070 Acetaldehyde	1	0.005732	0	1
FRIED	0	0	71432 Benzene	1	0.050568	0	1
FRIED	0	0	106990 1,3-Butadiene	1	0.01126	0	1
FRIED	0	0	100414 Ethyl benzene	1	0.021497	0	1
FRIED	0	0	50000 Formaldehyde	1	0.032347	0	1
FRIED	0	0	91203 Naphthalene	1	0.001024	0	1
JERR	0	0	75070 Acetaldehyde	1	0.004586	0	1
JERR	0	0	71432 Benzene	1	0.040455	0	1
JERR	0	0	106990 1,3-Butadiene	1	0.009008	0	1
JERR	0	0	100414 Ethyl benzene	1	0.017197	0	1
JERR	0	0	50000 Formaldehyde	1	0.025878	0	1
JERR	0	0	91203 Naphthalene	1	0.000819	0	1
NORTH	0	0	75070 Acetaldehyde	1	0.015592	0	1
NORTH	0	0	71432 Benzene	1	0.137545	0	1
NORTH	0	0	106990 1,3-Butadiene	1	0.030628	0	1
NORTH	0	0	100414 Ethyl benzene	1	0.058471	0	1
NORTH	0	0	50000 Formaldehyde	1	0.087985	0	1
NORTH	0	0	91203 Naphthalene	1	0.002784	0	1
EARLS	0	0	75070 Acetaldehyde	1	0.001834	0	1
EARLS	0	0	71432 Benzene	1	0.016182	0	1
EARLS	0	0	106990 1,3-Butadiene	1	0.003603	0	1
EARLS	0	0	100414 Ethyl benzene	1	0.006879	0	1
EARLS	0	0	50000 Formaldehyde	1	0.010351	0	1
EARLS	0	0	91203 Naphthalene	1	0.000328	0	1
KIRKN	0	0	75070 Acetaldehyde	1	0.015363	0	1
KIRKN	0	0	71432 Benzene	1	0.135523	0	1
KIRKN	0	0	106990 1,3-Butadiene	1	0.030177	0	1
KIRKN	0	0	100414 Ethyl benzene	1	0.057611	0	1
KIRKN	0	0	50000 Formaldehyde	1	0.086691	0	1
KIRKN	0	0	91203 Naphthalene	1	0.002743	0	1
INGALLS	0	0	75070 Acetaldehyde	1	0.007567	0	1
INGALLS	0	0	71432 Benzene	1	0.06675	0	1
INGALLS	0	0	106990 1,3-Butadiene	1	0.014863	0	1
INGALLS	0	0	100414 Ethyl benzene	1	0.028375	0	1
INGALLS	0	0	50000 Formaldehyde	1	0.042698	0	1
INGALLS	0	0	91203 Naphthalene	1	0.001351	0	1
JENN	0	0	75070 Acetaldehyde	1	0.005881	0	1
JENN	0	0	71432 Benzene	1	0.051877	0	1
JENN	0	0	106990 1,3-Butadiene	1	0.011552	0	1
JENN	0	0	100414 Ethyl benzene	1	0.022053	0	1

JENN	0	0	50000	Formaldehyde	1	0.033184	0	1
JENN	0	0	91203	Naphthalene	1	0.00105	0	1
MIDDLE	0	0	75070	Acetaldehyde	1	0.00665	0	1
MIDDLE	0	0	71432	Benzene	1	0.058659	0	1
MIDDLE	0	0	106990	1,3-Butadiene	1	0.013062	0	1
MIDDLE	0	0	100414	Ethyl benzene	1	0.024936	0	1
MIDDLE	0	0	50000	Formaldehyde	1	0.037523	0	1
MIDDLE	0	0	91203	Naphthalene	1	0.001187	0	1
HAWES	0	0	75070	Acetaldehyde	1	0	0	1
HAWES	0	0	71432	Benzene	1	0	0	1
HAWES	0	0	106990	1,3-Butadiene	1	0	0	1
HAWES	0	0	100414	Ethyl benzene	1	0	0	1
HAWES	0	0	50000	Formaldehyde	1	0	0	1
HAWES	0	0	91203	Naphthalene	1	0	0	1

EMGEN1	0	0	9901	DieselExhPM	1	0.724	0
EMGEN2	0	0	9901	DieselExhPM	1	0.724	0
EMGEN3	0	0	9901	DieselExhPM	1	0.362	0
EMGEN4	0	0	9901	DieselExhPM	1	0.362	0
EMGEN5	0	0	9901	DieselExhPM	1	0.724	0
EMGEN6	0	0	9901	DieselExhPM	1	0.724	0
EMGEN7	0	0	9901	DieselExhPM	1	0.362	0
EMGEN8	0	0	9901	DieselExhPM	1	0.362	0
INNESN	0	0	9901	DieselExhPM	1	1.104658	0
HUNT	0	0	9901	DieselExhPM	1	0.649941	0
EVANS	0	0	9901	DieselExhPM	1	0.005135	0
GRIFF	0	0	9901	DieselExhPM	1	0.003992	0
NHUD	0	0	9901	DieselExhPM	1	0.41971	0
ARELI	0	0	9901	DieselExhPM	1	0.478321	0
EARLN	0	0	9901	DieselExhPM	1	0.41971	0
DONS	0	0	9901	DieselExhPM	1	0.01136	0
GALVEZ	0	0	9901	DieselExhPM	1	0.002525	0
INNESS	0	0	9901	DieselExhPM	1	0.005891	0
HUDSON	0	0	9901	DieselExhPM	1	0.007153	0
KIRKS	0	0	9901	DieselExhPM	1	0.00547	0
FRIED	0	0	9901	DieselExhPM	1	0.010519	0
JERR	0	0	9901	DieselExhPM	1	0.008415	0
NORTH	0	0	9901	DieselExhPM	1	0.028611	0
EARLS	0	0	9901	DieselExhPM	1	0.003366	0
KIRKN	0	0	9901	DieselExhPM	1	0.02819	0
INGALLS	0	0	9901	DieselExhPM	1	0.013885	0
JENN	0	0	9901	DieselExhPM	1	0.018875	0
MIDDLE	0	0	9901	DieselExhPM	1	0.012202	0
HAWES	0	0	9901	DieselExhPM	1	0	0
INNESN	0	0	75070	Acetaldehyde	1	1.582166	0
INNESN	0	0	71432	Benzene	1	13.95696	0
INNESN	0	0	106990	1,3-Butadiene	1	3.107825	0
INNESN	0	0	100414	Ethyl benzene	1	5.933121	0
INNESN	0	0	50000	Formaldehyde	1	8.927934	0
INNESN	0	0	91203	Naphthalene	1	0.28253	0
HUNT	0	0	75070	Acetaldehyde	1	0.930889	0
HUNT	0	0	71432	Benzene	1	8.211774	0
HUNT	0	0	106990	1,3-Butadiene	1	1.828533	0
HUNT	0	0	100414	Ethyl benzene	1	3.490835	0
HUNT	0	0	50000	Formaldehyde	1	5.252876	0
HUNT	0	0	91203	Naphthalene	1	0.16623	0
EVANS	0	0	75070	Acetaldehyde	1	0.407264	0
EVANS	0	0	71432	Benzene	1	3.592651	0
EVANS	0	0	106990	1,3-Butadiene	1	0.799983	0
EVANS	0	0	100414	Ethyl benzene	1	1.52724	0
EVANS	0	0	50000	Formaldehyde	1	2.298133	0
EVANS	0	0	91203	Naphthalene	1	0.072726	0

GRIFF	0	0	75070	Acetaldehyde	1	0.316575	0
GRIFF	0	0	71432	Benzene	1	2.792647	0
GRIFF	0	0	106990	1,3-Butadiene	1	0.621845	0
GRIFF	0	0	100414	Ethyl benzene	1	1.187158	0
GRIFF	0	0	50000	Formaldehyde	1	1.78639	0
GRIFF	0	0	91203	Naphthalene	1	0.056531	0
NHUD	0	0	75070	Acetaldehyde	1	0.601138	0
NHUD	0	0	71432	Benzene	1	5.302892	0
NHUD	0	0	106990	1,3-Butadiene	1	1.180806	0
NHUD	0	0	100414	Ethyl benzene	1	2.254266	0
NHUD	0	0	50000	Formaldehyde	1	3.392133	0
NHUD	0	0	91203	Naphthalene	1	0.107346	0
ARELI	0	0	75070	Acetaldehyde	1	0.685083	0
ARELI	0	0	71432	Benzene	1	6.043414	0
ARELI	0	0	106990	1,3-Butadiene	1	1.345699	0
ARELI	0	0	100414	Ethyl benzene	1	2.569063	0
ARELI	0	0	50000	Formaldehyde	1	3.865828	0
ARELI	0	0	91203	Naphthalene	1	0.122336	0
EARLN	0	0	75070	Acetaldehyde	1	0.601138	0
EARLN	0	0	71432	Benzene	1	5.302892	0
EARLN	0	0	106990	1,3-Butadiene	1	1.180806	0
EARLN	0	0	100414	Ethyl benzene	1	2.254266	0
EARLN	0	0	50000	Formaldehyde	1	3.392133	0
EARLN	0	0	91203	Naphthalene	1	0.107346	0
DONS	0	0	75070	Acetaldehyde	1	0.016271	0
DONS	0	0	71432	Benzene	1	0.143533	0
DONS	0	0	106990	1,3-Butadiene	1	0.031961	0
DONS	0	0	100414	Ethyl benzene	1	0.061016	0
DONS	0	0	50000	Formaldehyde	1	0.091815	0
DONS	0	0	91203	Naphthalene	1	0.002906	0
GALVEZ	0	0	75070	Acetaldehyde	1	0.003616	0
GALVEZ	0	0	71432	Benzene	1	0.031896	0
GALVEZ	0	0	106990	1,3-Butadiene	1	0.007102	0
GALVEZ	0	0	100414	Ethyl benzene	1	0.013559	0
GALVEZ	0	0	50000	Formaldehyde	1	0.020403	0
GALVEZ	0	0	91203	Naphthalene	1	0.000646	0
INNESS	0	0	75070	Acetaldehyde	1	0.008437	0
INNESS	0	0	71432	Benzene	1	0.074425	0
INNESS	0	0	106990	1,3-Butadiene	1	0.016572	0
INNESS	0	0	100414	Ethyl benzene	1	0.031638	0
INNESS	0	0	50000	Formaldehyde	1	0.047608	0
INNESS	0	0	91203	Naphthalene	1	0.001507	0
HUDSON	0	0	75070	Acetaldehyde	1	0.010245	0
HUDSON	0	0	71432	Benzene	1	0.090373	0
HUDSON	0	0	106990	1,3-Butadiene	1	0.020123	0
HUDSON	0	0	100414	Ethyl benzene	1	0.038418	0
HUDSON	0	0	50000	Formaldehyde	1	0.057809	0

HUDSON	0	0	91203	Naphthalene	1	0.001829	0
KIRKS	0	0	75070	Acetaldehyde	1	0.007834	0
KIRKS	0	0	71432	Benzene	1	0.069108	0
KIRKS	0	0	106990	1,3-Butadiene	1	0.015389	0
KIRKS	0	0	100414	Ethyl benzene	1	0.029378	0
KIRKS	0	0	50000	Formaldehyde	1	0.044207	0
KIRKS	0	0	91203	Naphthalene	1	0.001399	0
FRIED	0	0	75070	Acetaldehyde	1	0.015066	0
FRIED	0	0	71432	Benzene	1	0.132901	0
FRIED	0	0	106990	1,3-Butadiene	1	0.029593	0
FRIED	0	0	100414	Ethyl benzene	1	0.056496	0
FRIED	0	0	50000	Formaldehyde	1	0.085014	0
FRIED	0	0	91203	Naphthalene	1	0.00269	0
JERR	0	0	75070	Acetaldehyde	1	0.012053	0
JERR	0	0	71432	Benzene	1	0.106321	0
JERR	0	0	106990	1,3-Butadiene	1	0.023675	0
JERR	0	0	100414	Ethyl benzene	1	0.045197	0
JERR	0	0	50000	Formaldehyde	1	0.068011	0
JERR	0	0	91203	Naphthalene	1	0.002152	0
NORTH	0	0	75070	Acetaldehyde	1	0.040979	0
NORTH	0	0	71432	Benzene	1	0.361491	0
NORTH	0	0	106990	1,3-Butadiene	1	0.080494	0
NORTH	0	0	100414	Ethyl benzene	1	0.15367	0
NORTH	0	0	50000	Formaldehyde	1	0.231237	0
NORTH	0	0	91203	Naphthalene	1	0.007318	0
EARLS	0	0	75070	Acetaldehyde	1	0.004821	0
EARLS	0	0	71432	Benzene	1	0.042528	0
EARLS	0	0	106990	1,3-Butadiene	1	0.00947	0
EARLS	0	0	100414	Ethyl benzene	1	0.018079	0
EARLS	0	0	50000	Formaldehyde	1	0.027204	0
EARLS	0	0	91203	Naphthalene	1	0.000861	0
KIRKN	0	0	75070	Acetaldehyde	1	0.040376	0
KIRKN	0	0	71432	Benzene	1	0.356175	0
KIRKN	0	0	106990	1,3-Butadiene	1	0.07931	0
KIRKN	0	0	100414	Ethyl benzene	1	0.15141	0
KIRKN	0	0	50000	Formaldehyde	1	0.227836	0
KIRKN	0	0	91203	Naphthalene	1	0.00721	0
INGALLS	0	0	75070	Acetaldehyde	1	0.019887	0
INGALLS	0	0	71432	Benzene	1	0.175429	0
INGALLS	0	0	106990	1,3-Butadiene	1	0.039063	0
INGALLS	0	0	100414	Ethyl benzene	1	0.074575	0
INGALLS	0	0	50000	Formaldehyde	1	0.112218	0
INGALLS	0	0	91203	Naphthalene	1	0.003551	0
JENN	0	0	75070	Acetaldehyde	1	0.027033	0
JENN	0	0	71432	Benzene	1	0.238473	0
JENN	0	0	106990	1,3-Butadiene	1	0.053101	0
JENN	0	0	100414	Ethyl benzene	1	0.101375	0

JENN	0	0	50000	Formaldehyde	1	0.152546	0
JENN	0	0	91203	Naphthalene	1	0.004827	0
MIDDLE	0	0	75070	Acetaldehyde	1	0.017476	0
MIDDLE	0	0	71432	Benzene	1	0.154165	0
MIDDLE	0	0	106990	1,3-Butadiene	1	0.034328	0
MIDDLE	0	0	100414	Ethyl benzene	1	0.065536	0
MIDDLE	0	0	50000	Formaldehyde	1	0.098616	0
MIDDLE	0	0	91203	Naphthalene	1	0.003121	0
HAWES	0	0	75070	Acetaldehyde	1	0	0
HAWES	0	0	71432	Benzene	1	0	0
HAWES	0	0	106990	1,3-Butadiene	1	0	0
HAWES	0	0	100414	Ethyl benzene	1	0	0
HAWES	0	0	50000	Formaldehyde	1	0	0
HAWES	0	0	91203	Naphthalene	1	0	0

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EMFAC Gasoline TOG Speciation (% of TOG)

	TOG	Acetaldehyde	Benzene	1,3-Butadiene	Ethyl benzene	Formaldehyde	Naphthalene
	TOG lb/yr	0.28%	2.47%	0.55%	1.05%	1.58%	0.05%
2018R	15.40	0.04312	0.38038	0.0847	0.1617	0.24332	0.0077
2018V	15.40	0.04312	0.38038	0.0847	0.1617	0.24332	0.0077
2019R	1111.42	3.111976	27.45207	6.11281	11.66991	17.560436	0.55571
2019V	765.88	2.144464	18.91724	4.21234	8.04174	12.100904	0.38294
2020R	967.48	2.708944	23.89676	5.32114	10.15854	15.286184	0.48374
2020V	648.52	1.815856	16.01844	3.56686	6.80946	10.246616	0.32426
2021R	420.68	1.177904	10.3908	2.31374	4.41714	6.646744	0.21034
2021V	419.14	1.173592	10.35276	2.30527	4.40097	6.622412	0.20957
2022R	247.54	0.693112	6.114238	1.36147	2.59917	3.911132	0.12377
2022V	248.94	0.697032	6.148818	1.36917	2.61387	3.933252	0.12447

OpsR	TOG lb/yr	Acetaldehyde	Benzene	1,3-Butadiene	Ethyl benzene	Formaldehyde	Naphthalene
INNESN	294.0396	0.823310823	7.262778	1.617217688	3.087415586	4.645825357	0.14701979
HUNT	172.7711	0.48375903	4.267446	0.950240952	1.814096363	2.729783098	0.086385541
EVANS	75.5873	0.211644576	1.867008	0.415730416	0.793667159	1.194280105	0.037793674
GRIFF	61.2582	0.171523088	1.513079	0.336920352	0.64321158	0.967880283	0.030629123
NHUD	110.4399	0.309231625	2.727865	0.607419262	1.159618592	1.744949881	0.055219933
ARELI	127.0671	0.355787891	3.138557	0.698869072	1.334204592	2.007660244	0.063533552
EARLN	110.4399	0.309231625	2.727865	0.607419262	1.159618592	1.744949881	0.055219933
DONS	2.2111	0.006191017	0.054614	0.012160926	0.023216313	0.034935024	0.001105539
GALVEZ	0.4914	0.001375782	0.012136	0.002702428	0.005159181	0.007763339	0.000245675
INNESS	1.1465	0.003210157	0.028318	0.006305665	0.012038088	0.018114457	0.000573242
HUDSON	1.3922	0.003898048	0.034386	0.007656879	0.014617679	0.021996126	0.00069608
KIRKS	1.0646	0.00298086	0.026295	0.005855261	0.011178225	0.016820567	0.000532296
FRIED	2.0473	0.005732423	0.050568	0.011260117	0.021496586	0.032347244	0.001023647
JERR	1.6378	0.004585938	0.040455	0.009008093	0.017197269	0.025877795	0.000818918
NORTH	5.5686	0.015592191	0.137545	0.030627517	0.058470715	0.087984504	0.00278432
EARLS	0.6551	0.001834375	0.016182	0.003603237	0.006878908	0.010351118	0.000327567
KIRKN	5.4867	0.015362894	0.135523	0.030177112	0.057610851	0.086690614	0.002743374
INGALLS	2.7024	0.007566798	0.06675	0.014863354	0.028375494	0.042698362	0.001351214
JENN	2.1003	0.005880792	0.051877	0.011551555	0.022052968	0.033184467	0.001050141
MIDDLE	2.3749	0.006649611	0.058659	0.013061735	0.02493604	0.037522803	0.00118743
HAWES	0.0000	0	0	0	0	0	0

OpsV	TOG lb/yr	Acetaldehyde	Benzene	1,3-Butadiene	Ethyl benzene	Formaldehyde	Naphthalene
INNESN	565.059111	1.582165512	13.95696	3.107825112	5.933120669	8.927933959	0.282529556
HUNT	332.460491	0.930889374	8.211774	1.828532698	3.490835151	5.252875751	0.166230245
EVANS	145.451465	0.407264101	3.592651	0.799983055	1.527240379	2.298133141	0.072725732
GRIFF	113.062637	0.316575383	2.792647	0.621844503	1.187157688	1.786389664	0.056531318
NHUD	214.691973	0.601137526	5.302892	1.180805854	2.254265722	3.392133181	0.107345987
ARELI	244.672628	0.685083358	6.043414	1.345699453	2.569062592	3.865827519	0.122336314
EARLN	214.691973	0.601137526	5.302892	1.180805854	2.254265722	3.392133181	0.107345987
DONS	5.81105358	0.01627095	0.143533	0.031960795	0.061016063	0.091814647	0.002905527
GALVEZ	1.29134524	0.003615767	0.031896	0.007102399	0.013559125	0.020403255	0.000645673
INNESS	3.01313889	0.008436789	0.074425	0.016572264	0.031637958	0.047607595	0.001506569
HUDSON	3.65881151	0.010244672	0.090373	0.020123463	0.038417521	0.057809222	0.001829406
KIRKS	2.79791469	0.007834161	0.069108	0.015388531	0.029378104	0.044207052	0.001398957
FRIED	5.38060517	0.015065694	0.132901	0.029593328	0.056496354	0.085013562	0.002690303
JERR	4.30448413	0.012052556	0.106321	0.023674663	0.045197083	0.068010849	0.002152242
NORTH	14.6352461	0.040978689	0.361491	0.080493853	0.153670084	0.231236888	0.007317623
EARLS	1.72179365	0.004821022	0.042528	0.009469865	0.018078833	0.02720434	0.000860897
KIRKN	14.4200218	0.040376061	0.356175	0.07931012	0.151410229	0.227836345	0.007210011
INGALLS	7.10239882	0.019886717	0.175429	0.039063194	0.074575188	0.112217901	0.003551199
JENN	9.65478697	0.027033404	0.238473	0.053101328	0.101375263	0.152545634	0.004827393
MIDDLE	6.24150199	0.017476206	0.154165	0.034328261	0.065535771	0.098615731	0.003120751
HAWES	0	0	0	0	0	0	0

IB-BUILD Grading and Excavation
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	37.80	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2020

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Construction ONLY

Land Use - Sum of Ph. 1 + 2 Graded Acres = 29.2 + 8.6 = 37.8

Construction Phase - 6 days/work wk; 78 (demo) from RFI response and balance of 9 mos used for grad'g; phases assumed not to overlap

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - amount taken from Dec 2016 RFI response

Grading - import/export amounts from RFI response

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	78.00
tblConstructionPhase	NumDays	75.00	156.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	390.00	187.50
tblGrading	MaterialExported	0.00	350,000.00
tblGrading	MaterialImported	0.00	195,583.00
tblLandUse	LotAcreage	0.00	37.80
tblProjectCharacteristics	OperationalYear	2018	2020

2.0 Emissions Summary

IB-BUILD Grading and Excavation - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr								MT/yr		
2018	0.6395	13.8194	5.1207	0.0252	1.2065	0.2499	1.4564	0.4277	0.2320	0.6598	0.0000	2,571.4913	2,571.4913	0.4922	0.0000	2,583.7953
2019	0.2246	5.5931	2.0364	0.0112	1.1308	0.0767	1.2075	0.4047	0.0712	0.4759	0.0000	1,157.4671	1,157.4671	0.2221	0.0000	1,163.0186
Maximum	**0.6395**	**13.8194**	**5.1207**	**0.0252**	**1.2065**	**0.2499**	**1.4564**	**0.4277**	**0.2320**	**0.6598**	**0.0000**	**2,571.4913**	**2,571.4913**	**0.4922**	**0.0000**	**2,583.7953**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr								MT/yr		
2018	0.2852	9.4513	5.0490	0.0252	0.7292	0.0437	0.7730	0.2445	0.0422	0.2867	0.0000	2,571.4908	2,571.4908	0.4922	0.0000	2,583.7948
2019	0.1231	4.2870	2.0268	0.0112	0.6649	0.0186	0.6834	0.2235	0.0179	0.2413	0.0000	1,157.4669	1,157.4669	0.2221	0.0000	1,163.0184
Maximum	**0.2852**	**9.4513**	**5.0490**	**0.0252**	**0.7292**	**0.0437**	**0.7730**	**0.2445**	**0.0422**	**0.2867**	**0.0000**	**2,571.4908**	**2,571.4908**	**0.4922**	**0.0000**	**2,583.7948**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	52.74	29.23	1.14	0.00	40.36	80.93	45.33	43.79	80.20	53.51	0.00	0.00	0.00	0.00	0.00	0.00

IB-BUILD Grading and Excavation - San Francisco County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2018	8-31-2018	1.7742	0.2048
2	9-1-2018	11-30-2018	9.4631	7.1017
3	12-1-2018	2-28-2019	9.0366	6.8365
		Highest	9.4631	7.1017

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2018	8/30/2018	6	78	
2	Grading	Grading	8/31/2018	2/28/2019	6	156	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	144.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	68,198.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

IB-BUILD Grading and Excavation - San Francisco County, Annual

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0168	0.0000	0.0168	2.5500e-003	0.0000	2.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1450	1.4946	0.8699	1.5100e-003		0.0756	0.0756		0.0704	0.0704	0.0000	136.9839	136.9839	0.0377	0.0000	137.9274
Total	**0.1450**	**1.4946**	**0.8699**	**1.5100e-003**	**0.0168**	**0.0756**	**0.0924**	**2.5500e-003**	**0.0704**	**0.0729**	**0.0000**	**136.9839**	**136.9839**	**0.0377**	**0.0000**	**137.9274**

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	6.9000e-004	0.0288	7.3900e-003	6.0000e-005	1.2100e-003	1.1000e-004	1.3200e-003	3.3000e-004	1.1000e-004	4.4000e-004	0.0000	6.6424	6.6424	1.1300e-003	0.0000	6.6706
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.5000e-003	0.0160	5.0000e-005	4.6200e-003	4.0000e-005	4.6600e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.6832	4.6832	1.2000e-004	0.0000	4.6863
Total	**2.7800e-003**	**0.0303**	**0.0234**	**1.1000e-004**	**5.8300e-003**	**1.5000e-004**	**5.9800e-003**	**1.5600e-003**	**1.4000e-004**	**1.7000e-003**	**0.0000**	**11.3256**	**11.3256**	**1.2500e-003**	**0.0000**	**11.3569**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					7.5700e-003	0.0000	7.5700e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	136.9837	136.9837	0.0377	0.0000	137.9272
Total	**0.0180**	**0.0781**	**0.9079**	**1.5100e-003**	**7.5700e-003**	**2.4000e-003**	**9.9700e-003**	**1.1500e-003**	**2.4000e-003**	**3.5500e-003**	**0.0000**	**136.9837**	**136.9837**	**0.0377**	**0.0000**	**137.9272**

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0288	7.3900e-003	6.0000e-005	9.8000e-004	1.1000e-004	1.0900e-003	2.8000e-004	1.1000e-004	3.8000e-004	0.0000	6.6424	6.6424	1.1300e-003	0.0000	6.6706
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.5000e-003	0.0160	5.0000e-005	3.6200e-003	4.0000e-005	3.6600e-003	9.8000e-004	3.0000e-005	1.0200e-003	0.0000	4.6832	4.6832	1.2000e-004	0.0000	4.6863
Total	2.7800e-003	0.0303	0.0234	1.1000e-004	4.6000e-003	1.5000e-004	4.7500e-003	1.2600e-003	1.4000e-004	1.4000e-003	0.0000	11.3256	11.3256	1.2500e-003	0.0000	11.3569

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6496	0.0000	0.6496	0.2811	0.0000	0.2811	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2672	3.1249	1.8422	3.2600e-003		0.1383	0.1383		0.1272	0.1272	0.0000	297.4046	297.4046	0.0926	0.0000	299.7193
Total	0.2672	3.1249	1.8422	3.2600e-003	0.6496	0.1383	0.7879	0.2811	0.1272	0.4083	0.0000	297.4046	297.4046	0.0926	0.0000	299.7193

IB-BUILD Grading and Excavation - San Francisco County, Annual

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.2206	9.1670	2.3566	0.0202	0.5260	0.0358	0.5618	0.1403	0.0342	0.1745	0.0000	2,117.3713	2,117.3713	0.3604	0.0000	2,126.3804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7500e-003	2.6900e-003	0.0287	9.0000e-005	8.3000e-003	6.0000e-005	8.3600e-003	2.2100e-003	6.0000e-005	2.2700e-003	0.0000	8.4058	8.4058	2.2000e-004	0.0000	8.4113
Total	**0.2244**	**9.1696**	**2.3852**	**0.0203**	**0.5343**	**0.0359**	**0.5701**	**0.1425**	**0.0343**	**0.1768**	**0.0000**	**2,125.7771**	**2,125.7771**	**0.3606**	**0.0000**	**2,134.7917**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.2923	0.0000	0.2923	0.1265	0.0000	0.1265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0400	0.1733	1.7325	3.2600e-003		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003	0.0000	297.4043	297.4043	0.0926	0.0000	299.7189
Total	**0.0400**	**0.1733**	**1.7325**	**3.2600e-003**	**0.2923**	**5.3300e-003**	**0.2977**	**0.1265**	**5.3300e-003**	**0.1318**	**0.0000**	**297.4043**	**297.4043**	**0.0926**	**0.0000**	**299.7189**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.2206	9.1670	2.3566	0.0202	0.4182	0.0358	0.4540	0.1138	0.0342	0.1481	0.0000	2,117.371 3	2,117.371 3	0.3604	0.0000	2,126.380 4
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7500e-003	2.6900e-003	0.0287	9.0000e-005	6.5000e-003	6.0000e-005	6.5700e-003	1.7700e-003	6.0000e-005	1.8300e-003	0.0000	8.4058	8.4058	2.2000e-004	0.0000	8.4113
Total	**0.2244**	**9.1696**	**2.3852**	**0.0203**	**0.4247**	**0.0359**	**0.4606**	**0.1156**	**0.0343**	**0.1499**	**0.0000**	**2,125.777 1**	**2,125.777 1**	**0.3606**	**0.0000**	**2,134.791 7**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.6496	0.0000	0.6496	0.2811	0.0000	0.2811	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1208	1.3903	0.8511	1.5800e-003		0.0608	0.0608		0.0559	0.0559	0.0000	142.0384	142.0384	0.0449	0.0000	143.1619
Total	**0.1208**	**1.3903**	**0.8511**	**1.5800e-003**	**0.6496**	**0.0608**	**0.7104**	**0.2811**	**0.0559**	**0.3370**	**0.0000**	**142.0384**	**142.0384**	**0.0449**	**0.0000**	**143.1619**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1020	4.2017	1.1728	9.5700e-003	0.4771	0.0159	0.4931	0.1225	0.0152	0.1378	0.0000	1,011.4718	1,011.4718	0.1770	0.0000	1,015.8975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6700e-003	1.1600e-003	0.0126	4.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.9570	3.9570	9.0000e-005	0.0000	3.9593
Total	**0.1037**	**4.2028**	**1.1853**	**9.6100e-003**	**0.4812**	**0.0160**	**0.4971**	**0.1236**	**0.0153**	**0.1389**	**0.0000**	**1,015.4287**	**1,015.4287**	**0.1771**	**0.0000**	**1,019.8568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2923	0.0000	0.2923	0.1265	0.0000	0.1265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.0842	0.8415	1.5800e-003		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	142.0382	142.0382	0.0449	0.0000	143.1617
Total	**0.0194**	**0.0842**	**0.8415**	**1.5800e-003**	**0.2923**	**2.5900e-003**	**0.2949**	**0.1265**	**2.5900e-003**	**0.1291**	**0.0000**	**142.0382**	**142.0382**	**0.0449**	**0.0000**	**143.1617**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1020	4.2017	1.1728	9.5700e-003	0.3694	0.0159	0.3853	0.0961	0.0152	0.1113	0.0000	1,011.471 8	1,011.471 8	0.1770	0.0000	1,015.897 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6700e-003	1.1600e-003	0.0126	4.0000e-005	3.1600e-003	3.0000e-005	3.1900e-003	8.6000e-004	3.0000e-005	8.9000e-004	0.0000	3.9570	3.9570	9.0000e-005	0.0000	3.9593
Total	**0.1037**	**4.2028**	**1.1853**	**9.6100e-003**	**0.3725**	**0.0160**	**0.3885**	**0.0970**	**0.0153**	**0.1122**	**0.0000**	**1,015.428 7**	**1,015.428 7**	**0.1771**	**0.0000**	**1,019.856 8**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

IB-BUILD Grading and Excavation - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

		Average Daily Trip Rate		Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.607015	0.041018	0.191033	0.087570	0.015386	0.004865	0.027149	0.008727	0.004280	0.004624	0.006947	0.000926	0.000460

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					tons/yr								MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

IB-BUILD Grading and Excavation - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas
Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity
Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-BUILD Hamman, Hillside Cove
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	174.93	1000sqft	3.00	174,930.00	0
Elementary School	50.00	1000sqft	0.50	50,000.00	0
Enclosed Parking with Elevator	552.86	1000sqft	0.00	552,860.00	0
Other Asphalt Surfaces	58.99	1000sqft	1.35	0.00	0
Other Non-Asphalt Surfaces	58.99	1000sqft	1.35	0.00	0
City Park	1.74	Acre	1.74	0.00	0
Condo/Townhouse High Rise	796.00	Dwelling Unit	4.00	996,800.00	2181
Regional Shopping Center	43.56	1000sqft	0.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2022

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

Project Characteristics - Construction and Operations; assumed operational in 2022

Land Use - Acreage/sq footage taken from Dec 2016 RFI response; 796 du x 2.74 residents/du (density, from F&P Daily VMT calcs) = 2,181; Pkg (asphalt/non-asphlt) = (outdoor pkg + streets/sidewalks)/2; Resid LU incl. Cmmn Courtyd +Roof Terrace sfg's

Construction Phase - 6 days/work wk; default days ratio'd up

Vehicle Trips - CityPk (Public Rec/OS) LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	649.00
tblConstructionPhase	NumDays	300.00	587.00
tblConstructionPhase	NumDays	30.00	56.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/23/2023	1/30/2021
tblConstructionPhase	PhaseStartDate	12/27/2020	1/5/2019
tblFleetMix	FleetMixLandUseSubType	General Office Building	City Park
tblFleetMix	FleetMixLandUseSubType	Elementary School	Condo/Townhouse High Rise
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	Elementary School
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	General Office Building
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

tblFleetMix	FleetMixLandUseSubType	Condo/Townhouse High Rise	Other Non-Asphalt Surfaces
tblGrading	AcresOfGrading	140.00	75.00
tblLandUse	BuildingSpaceSquareFeet	58,990.00	0.00
tblLandUse	BuildingSpaceSquareFeet	58,990.00	0.00
tblLandUse	BuildingSpaceSquareFeet	796,000.00	996,800.00
tblLandUse	GreenSpaceSquareFeet	75,794.40	0.00
tblLandUse	LandUseSquareFeet	58,990.00	0.00
tblLandUse	LandUseSquareFeet	58,990.00	0.00
tblLandUse	LandUseSquareFeet	75,794.40	0.00
tblLandUse	LandUseSquareFeet	796,000.00	996,800.00
tblLandUse	LotAcreage	4.02	3.00
tblLandUse	LotAcreage	1.15	0.50
tblLandUse	LotAcreage	12.69	0.00
tblLandUse	LotAcreage	12.44	4.00
tblLandUse	LotAcreage	1.00	0.00
tblLandUse	Population	2,277.00	2,181.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CC_TL	7.30	1.14
tblVehicleTrips	CC_TL	7.30	6.62
tblVehicleTrips	CC_TL	7.30	0.28
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	6.62
tblVehicleTrips	CNW_TL	7.30	0.28
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	CW_TL	9.50	6.62
tblVehicleTrips	CW_TL	9.50	0.28

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

tblVehicleTrips	HO_TL	5.70	6.70
tblVehicleTrips	HS_TL	4.80	6.70
tblVehicleTrips	HW_TL	10.80	6.70
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	ST_TR	4.31	3.69
tblVehicleTrips	ST_TR	2.46	8.41
tblVehicleTrips	ST_TR	49.97	83.67
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	SU_TR	3.43	3.69
tblVehicleTrips	SU_TR	1.05	8.41
tblVehicleTrips	SU_TR	25.24	83.67
tblVehicleTrips	WD_TR	1.89	13.52
tblVehicleTrips	WD_TR	4.18	3.69
tblVehicleTrips	WD_TR	15.43	25.58
tblVehicleTrips	WD_TR	11.03	8.41
tblVehicleTrips	WD_TR	42.70	83.67

2.0 Emissions Summary

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1342	1.5489	0.9265	1.6600e-003	0.2125	0.0685	0.2810	0.0981	0.0630	0.1611	0.0000	151.4490	151.4490	0.0460	0.0000	152.5980
2019	5.1759	8.6629	8.4723	0.0283	1.7433	0.2628	2.0061	0.5104	0.2485	0.7589	0.0000	2,653.0710	2,653.0710	0.2542	0.0000	2,659.4254
2020	5.0613	7.2936	7.4308	0.0256	1.4080	0.2110	1.6189	0.3792	0.1993	0.5784	0.0000	2,388.7289	2,388.7289	0.2301	0.0000	2,394.4818
2021	0.3513	0.0241	0.0720	2.2000e-004	0.0184	1.3600e-003	0.0198	4.8900e-003	1.3500e-003	6.2400e-003	0.0000	20.1708	20.1708	5.7000e-004	0.0000	20.1851
Maximum	**5.1759**	**8.6629**	**8.4723**	**0.0283**	**1.7433**	**0.2628**	**2.0061**	**0.5104**	**0.2485**	**0.7589**	**0.0000**	**2,653.0710**	**2,653.0710**	**0.2542**	**0.0000**	**2,659.4254**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0217	0.0871	0.8722	1.6600e-003	0.0970	2.6700e-003	0.0997	0.0445	2.6700e-003	0.0472	0.0000	151.4488	151.4488	0.0460	0.0000	152.5978
2019	4.8172	5.3854	8.5159	0.0283	1.3059	0.0460	1.3519	0.3779	0.0439	0.4218	0.0000	2,653.0705	2,653.0705	0.2542	0.0000	2,659.4249
2020	4.7616	4.4876	7.5583	0.0256	1.1118	0.0331	1.1449	0.3065	0.0316	0.3381	0.0000	2,388.7284	2,388.7284	0.2301	0.0000	2,394.4813
2021	0.3488	5.9000e-003	0.0722	2.2000e-004	0.0144	1.9000e-004	0.0146	3.9200e-003	1.8000e-004	4.1000e-003	0.0000	20.1707	20.1707	5.7000e-004	0.0000	20.1851
Maximum	**4.8172**	**5.3854**	**8.5159**	**0.0283**	**1.3059**	**0.0460**	**1.3519**	**0.3779**	**0.0439**	**0.4218**	**0.0000**	**2,653.0705**	**2,653.0705**	**0.2542**	**0.0000**	**2,659.4249**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	7.21	43.15	-0.69	0.00	25.22	84.93	33.49	26.17	84.68	46.09	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2018	1-31-2019	2.8291	0.8874
2	2-1-2019	4-30-2019	3.3923	2.5218
3	5-1-2019	7-31-2019	3.4698	2.5700
4	8-1-2019	10-31-2019	3.4885	2.5887
5	11-1-2019	1-31-2020	3.4516	2.5825
6	2-1-2020	4-30-2020	3.2186	2.4275
7	5-1-2020	7-31-2020	3.2578	2.4491
8	8-1-2020	10-31-2020	3.2742	2.4655

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

9	11-1-2020	1-31-2021	1.8288	1.3887
		Highest	3.4885	2.5887

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Area	7.8467	0.1106	8.4545	5.3500e-003		0.3943	0.3943		0.3943	0.3943	36.2894	24.5772	60.8666	0.0677	2.3800e-003	63.2678
Energy	0.0730	0.6365	0.3608	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	3,764.8604	3,764.8604	0.1514	0.0417	3,781.0740
Mobile	1.7787	6.3290	16.0291	0.0492	4.1507	0.0574	4.2082	1.1182	0.0538	1.1720	0.0000	4,523.2173	4,523.2173	0.2126	0.0000	4,528.5310
Waste						0.0000	0.0000		0.0000	0.0000	129.8594	0.0000	129.8594	7.6745	0.0000	321.7212
Water						0.0000	0.0000		0.0000	0.0000	27.8010	198.5539	226.3549	2.8644	0.0693	318.6105
Total	**9.6983**	**7.0761**	**24.8443**	**0.0585**	**4.1507**	**0.5022**	**4.6529**	**1.1182**	**0.4985**	**1.6167**	**193.9498**	**8,511.2088**	**8,705.1585**	**10.9705**	**0.1134**	**9,013.2044**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Area	7.8467	0.1106	8.4545	5.3500e-003		0.3943	0.3943		0.3943	0.3943	36.2894	24.5772	60.8666	0.0677	2.3800e-003	63.2678
Energy	0.0730	0.6365	0.3608	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	3,764.8604	3,764.8604	0.1514	0.0417	3,781.0740
Mobile	1.7787	6.3290	16.0291	0.0492	4.1507	0.0574	4.2082	1.1182	0.0538	1.1720	0.0000	4,523.2173	4,523.2173	0.2126	0.0000	4,528.5310
Waste						0.0000	0.0000		0.0000	0.0000	129.8594	0.0000	129.8594	7.6745	0.0000	321.7212
Water						0.0000	0.0000		0.0000	0.0000	27.8010	198.5539	226.3549	2.8644	0.0693	318.6105
Total	**9.6983**	**7.0761**	**24.8443**	**0.0585**	**4.1507**	**0.5022**	**4.6529**	**1.1182**	**0.4985**	**1.6167**	**193.9498**	**8,511.2088**	**8,705.1585**	**10.9705**	**0.1134**	**9,013.2044**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2018	1/4/2019	6	56	
2	Building Construction	Building Construction	1/5/2019	11/19/2020	6	587	
3	Paving	Paving	11/20/2020	12/26/2020	6	32	
4	Architectural Coating	Architectural Coating	1/5/2019	1/30/2021	6	649	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.7

Residential Indoor: 2,018,520; Residential Outdoor: 672,840; Non-Residential Indoor: 402,735; Non-Residential Outdoor: 134,245; Striped Parking Area: 33,172 (Architectural Coating – sqft)

OffRoad Equipment

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	896.00	220.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	179.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Fugitive Dust					0.2084	0.0000	0.2084	0.0970	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1323	1.5476	0.9123	1.6100e-003		0.0685	0.0685		0.0630	0.0630	0.0000	147.2861	147.2861	0.0459	0.0000	148.4324
Total	0.1323	1.5476	0.9123	1.6100e-003	0.2084	0.0685	0.2769	0.0970	0.0630	0.1600	0.0000	147.2861	147.2861	0.0459	0.0000	148.4324

3.2 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.3300e-003	0.0142	5.0000e-005	4.1100e-003	3.0000e-005	4.1400e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	4.1629	4.1629	1.1000e-004	0.0000	4.1656
Total	**1.8600e-003**	**1.3300e-003**	**0.0142**	**5.0000e-005**	**4.1100e-003**	**3.0000e-005**	**4.1400e-003**	**1.0900e-003**	**3.0000e-005**	**1.1200e-003**	**0.0000**	**4.1629**	**4.1629**	**1.1000e-004**	**0.0000**	**4.1656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0938	0.0000	0.0938	0.0436	0.0000	0.0436	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.0858	0.8580	1.6100e-003		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	147.2859	147.2859	0.0459	0.0000	148.4322
Total	**0.0198**	**0.0858**	**0.8580**	**1.6100e-003**	**0.0938**	**2.6400e-003**	**0.0964**	**0.0436**	**2.6400e-003**	**0.0463**	**0.0000**	**147.2859**	**147.2859**	**0.0459**	**0.0000**	**148.4322**

3.2 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.3300e-003	0.0142	5.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.8000e-004	3.0000e-005	9.0000e-004	0.0000	4.1629	4.1629	1.1000e-004	0.0000	4.1656
Total	1.8600e-003	1.3300e-003	0.0142	5.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.8000e-004	3.0000e-005	9.0000e-004	0.0000	4.1629	4.1629	1.1000e-004	0.0000	4.1656

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.2084	0.0000	0.2084	0.0970	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4800e-003	0.1090	0.0668	1.2000e-004		4.7700e-003	4.7700e-003		4.3800e-003	4.3800e-003	0.0000	11.1403	11.1403	3.5200e-003	0.0000	11.2284
Total	9.4800e-003	0.1090	0.0668	1.2000e-004	0.2084	4.7700e-003	0.2132	0.0970	4.3800e-003	0.1014	0.0000	11.1403	11.1403	3.5200e-003	0.0000	11.2284

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3.2 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	9.9000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.3104	0.3104	1.0000e-005	0.0000	0.3105
Total	**1.3000e-004**	**9.0000e-005**	**9.9000e-004**	**0.0000**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**8.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3104**	**0.3104**	**1.0000e-005**	**0.0000**	**0.3105**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0938	0.0000	0.0938	0.0436	0.0000	0.0436	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5200e-003	6.6000e-003	0.0660	1.2000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	11.1403	11.1403	3.5200e-003	0.0000	11.2284
Total	**1.5200e-003**	**6.6000e-003**	**0.0660**	**1.2000e-004**	**0.0938**	**2.0000e-004**	**0.0940**	**0.0436**	**2.0000e-004**	**0.0438**	**0.0000**	**11.1403**	**11.1403**	**3.5200e-003**	**0.0000**	**11.2284**

3.2 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	9.9000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3104	0.3104	1.0000e-005	0.0000	0.3105
Total	**1.3000e-004**	**9.0000e-005**	**9.9000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.3104**	**0.3104**	**1.0000e-005**	**0.0000**	**0.3105**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.3648	3.2567	2.6518	4.1600e-003		0.1993	0.1993		0.1874	0.1874	0.0000	363.2360	363.2360	0.0885	0.0000	365.4482
Total	**0.3648**	**3.2567**	**2.6518**	**4.1600e-003**		**0.1993**	**0.1993**		**0.1874**	**0.1874**	**0.0000**	**363.2360**	**363.2360**	**0.0885**	**0.0000**	**365.4482**

3.3 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1537	4.6370	1.3764	9.3500e-003	0.2222	0.0287	0.2509	0.0642	0.0275	0.0917	0.0000	950.3097	950.3097	0.1281	0.0000	953.5131
Worker	0.4537	0.3138	3.4105	0.0119	1.0939	8.4600e-003	1.1023	0.2910	7.7900e-003	0.2988	0.0000	1,074.055 6	1,074.055 6	0.0256	0.0000	1,074.695 0
Total	**0.6074**	**4.9509**	**4.7869**	**0.0212**	**1.3160**	**0.0372**	**1.3532**	**0.3552**	**0.0353**	**0.3905**	**0.0000**	**2,024.365 3**	**2,024.365 3**	**0.1537**	**0.0000**	**2,028.208 1**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0507	0.3453	2.6976	4.1600e-003		6.3000e-003	6.3000e-003		6.3000e-003	6.3000e-003	0.0000	363.2356	363.2356	0.0885	0.0000	365.4477
Total	**0.0507**	**0.3453**	**2.6976**	**4.1600e-003**		**6.3000e-003**	**6.3000e-003**		**6.3000e-003**	**6.3000e-003**	**0.0000**	**363.2356**	**363.2356**	**0.0885**	**0.0000**	**365.4477**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

3.3 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1537	4.6370	1.3764	9.3500e-003	0.1830	0.0287	0.2117	0.0546	0.0275	0.0821	0.0000	950.3097	950.3097	0.1281	0.0000	953.5131
Worker	0.4537	0.3138	3.4105	0.0119	0.8576	8.4600e-003	0.8661	0.2330	7.7900e-003	0.2408	0.0000	1,074.0556	1,074.0556	0.0256	0.0000	1,074.6950
Total	0.6074	4.9509	4.7869	0.0212	1.0406	0.0372	1.0777	0.2876	0.0353	0.3229	0.0000	2,024.3653	2,024.3653	0.1537	0.0000	2,028.2081

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.2947	2.6669	2.3419	3.7400e-003		0.1553	0.1553		0.1460	0.1460	0.0000	321.9379	321.9379	0.0785	0.0000	323.9014
Total	0.2947	2.6669	2.3419	3.7400e-003		0.1553	0.1553		0.1460	0.1460	0.0000	321.9379	321.9379	0.0785	0.0000	323.9014

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1125	3.8282	1.1309	8.2900e-003	0.1999	0.0169	0.2168	0.0578	0.0162	0.0740	0.0000	846.4867	846.4867	0.1129	0.0000	849.3103
Worker	0.3785	0.2519	2.7990	0.0103	0.9841	7.5700e-003	0.9917	0.2618	6.9700e-003	0.2688	0.0000	935.3186	935.3186	0.0205	0.0000	935.8311
Total	**0.4910**	**4.0800**	**3.9299**	**0.0186**	**1.1840**	**0.0245**	**1.2085**	**0.3196**	**0.0232**	**0.3427**	**0.0000**	**1,781.8054**	**1,781.8054**	**0.1334**	**0.0000**	**1,785.1414**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0456	0.3106	2.4270	3.7400e-003		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	321.9375	321.9375	0.0785	0.0000	323.9010
Total	**0.0456**	**0.3106**	**2.4270**	**3.7400e-003**		**5.6700e-003**	**5.6700e-003**		**5.6700e-003**	**5.6700e-003**	**0.0000**	**321.9375**	**321.9375**	**0.0785**	**0.0000**	**323.9010**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr			
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor		0.1125	3.8282	1.1309	8.2900e-003	0.1646	0.0169	0.1815	0.0491	0.0162	0.0653	0.0000	846.4867	846.4867	0.1129	0.0000	849.3103
Worker		0.3785	0.2519	2.7990	0.0103	0.7716	7.5700e-003	0.7792	0.2096	6.9700e-003	0.2166	0.0000	935.3186	935.3186	0.0205	0.0000	935.8311
Total		0.4910	4.0800	3.9299	0.0186	0.9362	0.0245	0.9607	0.2588	0.0232	0.2819	0.0000	1,781.8054	1,781.8054	0.1334	0.0000	1,785.1414

3.4 Paving - 2020

Unmitigated Construction On-Site

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr			
Off-Road		0.0217	0.2251	0.2344	3.6000e-004		0.0120	0.0120		0.0111	0.0111	0.0000	32.0452	32.0452	0.0104	0.0000	32.3043
Paving		1.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0235	0.2251	0.2344	3.6000e-004		0.0120	0.0120		0.0111	0.0111	0.0000	32.0452	32.0452	0.0104	0.0000	32.3043

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.9000e-004	5.3900e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.8024	1.8024	4.0000e-005	0.0000	1.8034
Total	**7.3000e-004**	**4.9000e-004**	**5.3900e-003**	**2.0000e-005**	**1.9000e-003**	**1.0000e-005**	**1.9100e-003**	**5.0000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.8024**	**1.8024**	**4.0000e-005**	**0.0000**	**1.8034**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	4.4900e-003	0.0195	0.2767	3.6000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	32.0451	32.0451	0.0104	0.0000	32.3042
Paving	1.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.2600e-003**	**0.0195**	**0.2767**	**3.6000e-004**		**6.0000e-004**	**6.0000e-004**		**6.0000e-004**	**6.0000e-004**	**0.0000**	**32.0451**	**32.0451**	**0.0104**	**0.0000**	**32.3042**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.9000e-004	5.3900e-003	2.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.2000e-004	0.0000	1.8024	1.8024	4.0000e-005	0.0000	1.8034
Total	**7.3000e-004**	**4.9000e-004**	**5.3900e-003**	**2.0000e-005**	**1.4900e-003**	**1.0000e-005**	**1.5000e-003**	**4.0000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.8024**	**1.8024**	**4.0000e-005**	**0.0000**	**1.8034**

3.5 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	4.0623					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0412	0.2836	0.2845	4.6000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	39.4478	39.4478	3.3300e-003	0.0000	39.5311
Total	**4.1035**	**0.2836**	**0.2845**	**4.6000e-004**		**0.0199**	**0.0199**		**0.0199**	**0.0199**	**0.0000**	**39.4478**	**39.4478**	**3.3300e-003**	**0.0000**	**39.5311**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

3.5 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0906	0.0627	0.6813	2.3700e-003	0.2185	1.6900e-003	0.2202	0.0581	1.5600e-003	0.0597	0.0000	214.5714	214.5714	5.1100e-003	0.0000	214.6991
Total	**0.0906**	**0.0627**	**0.6813**	**2.3700e-003**	**0.2185**	**1.6900e-003**	**0.2202**	**0.0581**	**1.5600e-003**	**0.0597**	**0.0000**	**214.5714**	**214.5714**	**5.1100e-003**	**0.0000**	**214.6991**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	4.0623					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5900e-003	0.0199	0.2831	4.6000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	39.4477	39.4477	3.3300e-003	0.0000	39.5310
Total	**4.0669**	**0.0199**	**0.2831**	**4.6000e-004**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**39.4477**	**39.4477**	**3.3300e-003**	**0.0000**	**39.5310**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

3.5 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0906	0.0627	0.6813	2.3700e-003	0.1713	1.6900e-003	0.1730	0.0466	1.5600e-003	0.0481	0.0000	214.5714	214.5714	5.1100e-003	0.0000	214.6991
Total	**0.0906**	**0.0627**	**0.6813**	**2.3700e-003**	**0.1713**	**1.6900e-003**	**0.1730**	**0.0466**	**1.5600e-003**	**0.0481**	**0.0000**	**214.5714**	**214.5714**	**5.1100e-003**	**0.0000**	**214.6991**

3.5 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	4.1281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0380	0.2644	0.2875	4.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	40.0861	40.0861	3.1000e-003	0.0000	40.1637
Total	**4.1661**	**0.2644**	**0.2875**	**4.7000e-004**		**0.0174**	**0.0174**		**0.0174**	**0.0174**	**0.0000**	**40.0861**	**40.0861**	**3.1000e-003**	**0.0000**	**40.1637**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

3.5 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0854	0.0568	0.6316	2.3300e-003	0.2221	1.7100e-003	0.2238	0.0591	1.5700e-003	0.0607	0.0000	211.0520	211.0520	4.6300e-003	0.0000	211.1676
Total	**0.0854**	**0.0568**	**0.6316**	**2.3300e-003**	**0.2221**	**1.7100e-003**	**0.2238**	**0.0591**	**1.5700e-003**	**0.0607**	**0.0000**	**211.0520**	**211.0520**	**4.6300e-003**	**0.0000**	**211.1676**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	4.1281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6700e-003	0.0202	0.2877	4.7000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	40.0860	40.0860	3.1000e-003	0.0000	40.1636
Total	**4.1327**	**0.0202**	**0.2877**	**4.7000e-004**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**40.0860**	**40.0860**	**3.1000e-003**	**0.0000**	**40.1636**

3.5 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0854	0.0568	0.6316	2.3300e-003	0.1741	1.7100e-003	0.1758	0.0473	1.5700e-003	0.0489	0.0000	211.0520	211.0520	4.6300e-003	0.0000	211.1676
Total	**0.0854**	**0.0568**	**0.6316**	**2.3300e-003**	**0.1741**	**1.7100e-003**	**0.1758**	**0.0473**	**1.5700e-003**	**0.0489**	**0.0000**	**211.0520**	**211.0520**	**4.6300e-003**	**0.0000**	**211.1676**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Archit. Coating	0.3418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0199	0.0236	4.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	3.3192	3.3192	2.3000e-004	0.0000	3.3249
Total	**0.3447**	**0.0199**	**0.0236**	**4.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**	**0.0000**	**3.3192**	**3.3192**	**2.3000e-004**	**0.0000**	**3.3249**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6200e-003	4.2300e-003	0.0484	1.9000e-004	0.0184	1.4000e-004	0.0185	4.8900e-003	1.3000e-004	5.0200e-003	0.0000	16.8515	16.8515	3.5000e-004	0.0000	16.8602
Total	**6.6200e-003**	**4.2300e-003**	**0.0484**	**1.9000e-004**	**0.0184**	**1.4000e-004**	**0.0185**	**4.8900e-003**	**1.3000e-004**	**5.0200e-003**	**0.0000**	**16.8515**	**16.8515**	**3.5000e-004**	**0.0000**	**16.8602**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	0.3418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	1.6700e-003	0.0238	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.3192	3.3192	2.3000e-004	0.0000	3.3249
Total	**0.3422**	**1.6700e-003**	**0.0238**	**4.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**3.3192**	**3.3192**	**2.3000e-004**	**0.0000**	**3.3249**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6200e-003	4.2300e-003	0.0484	1.9000e-004	0.0144	1.4000e-004	0.0146	3.9200e-003	1.3000e-004	4.0400e-003	0.0000	16.8515	16.8515	3.5000e-004	0.0000	16.8602
Total	**6.6200e-003**	**4.2300e-003**	**0.0484**	**1.9000e-004**	**0.0144**	**1.4000e-004**	**0.0146**	**3.9200e-003**	**1.3000e-004**	**4.0400e-003**	**0.0000**	**16.8515**	**16.8515**	**3.5000e-004**	**0.0000**	**16.8602**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Mitigated	1.7787	6.3290	16.0291	0.0492	4.1507	0.0574	4.2082	1.1182	0.0538	1.1720	0.0000	4,523.2173	4,523.2173	0.2126	0.0000	4,528.5310
Unmitigated	1.7787	6.3290	16.0291	0.0492	4.1507	0.0574	4.2082	1.1182	0.0538	1.1720	0.0000	4,523.2173	4,523.2173	0.2126	0.0000	4,528.5310

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	23.52	23.52	23.52	1,052	1,052
Condo/Townhouse High Rise	2,937.24	2,937.24	2937.24	6,360,673	6,360,673
Elementary School	1,279.00	0.00	0.00	1,588,805	1,588,805
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	1,471.16	1,471.16	1471.16	2,900,202	2,900,202
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	3,644.67	3,644.67	3644.67	247,687	247,687
Total	9,355.59	8,076.59	8,076.59	11,098,418	11,098,418

4.3 Trip Type Information

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	6.70	6.70	6.70	31.00	15.00	54.00	86	11	3
Elementary School	9.50	1.14	7.30	65.00	30.00	5.00	63	25	12
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	6.62	6.62	6.62	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.28	0.28	0.28	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Condo/Townhouse High Rise	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Elementary School	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Enclosed Parking with Elevator	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
General Office Building	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Non-Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Regional Shopping Center	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category				tons/yr									MT/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,042.7524	3,042.7524	0.1376	0.0285	3,054.6748
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,042.7524	3,042.7524	0.1376	0.0285	3,054.6748
NaturalGas Mitigated	0.0730	0.6365	0.3608	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	722.1080	722.1080	0.0138	0.0132	726.3992
NaturalGas Unmitigated	0.0730	0.6365	0.3608	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	722.1080	722.1080	0.0138	0.0132	726.3992

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr					tons/yr								MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	9.10591e +006	0.0491	0.4196	0.1786	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.9258	485.9258	9.3100e-003	8.9100e-003	488.8134
Elementary School	827500	4.4600e-003	0.0406	0.0341	2.4400e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.1586	44.1586	8.5000e-004	8.1000e-004	44.4210
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	3.39714e +006	0.0183	0.1665	0.1399	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.2844	181.2844	3.4700e-003	3.3200e-003	182.3616
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	201247	1.0900e-003	9.8700e-003	8.2900e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.7393	10.7393	2.1000e-004	2.0000e-004	10.8031
Total		**0.0730**	**0.6366**	**0.3608**	**3.9800e-003**		**0.0504**	**0.0504**		**0.0504**	**0.0504**	**0.0000**	**722.1080**	**722.1080**	**0.0138**	**0.0132**	**726.3992**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr						tons/yr								MT/yr		
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	9.10591e+006	0.0491	0.4196	0.1786	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.9258	485.9258	9.3100e-003	8.9100e-003	488.8134
Elementary School	827500	4.4600e-003	0.0406	0.0341	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.1586	44.1586	8.5000e-004	8.1000e-004	44.4210
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	3.39714e+006	0.0183	0.1665	0.1399	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.2844	181.2844	3.4700e-003	3.3200e-003	182.3616
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	201247	1.0900e-003	9.8700e-003	8.2900e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.7393	10.7393	2.1000e-004	2.0000e-004	10.8031
Total		**0.0730**	**0.6366**	**0.3608**	**3.9800e-003**		**0.0504**	**0.0504**		**0.0504**	**0.0504**	**0.0000**	**722.1080**	**722.1080**	**0.0138**	**0.0132**	**726.3992**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.80572e +006	1,107.126 4	0.0501	0.0104	1,111.464 4
Elementary School	227000	66.0369	2.9900e-003	6.2000e-004	66.2957
Enclosed Parking with Elevator	3.72628e +006	1,084.016 5	0.0490	0.0101	1,088.264 0
General Office Building	2.23386e +006	649.8544	0.0294	6.0800e-003	652.4007
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	466528	135.7182	6.1400e-003	1.2700e-003	136.2500
Total		**3,042.752 4**	**0.1376**	**0.0285**	**3,054.674 8**

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	3.80572e +006	1,107.126 4	0.0501	0.0104	1,111.464 4
Elementary School	227000	66.0369	2.9900e-003	6.2000e-004	66.2957
Enclosed Parking with Elevator	3.72628e +006	1,084.016 5	0.0490	0.0101	1,088.264 0
General Office Building	2.23386e +006	649.8544	0.0294	6.0800e-003	652.4007
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	466528	135.7182	6.1400e-003	1.2700e-003	136.2500
Total		**3,042.752 4**	**0.1376**	**0.0285**	**3,054.674 8**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.8467	0.1106	8.4545	5.3500e-003		0.3943	0.3943		0.3943	0.3943	36.2894	24.5772	60.8666	0.0677	2.3800e-003	63.2678
Unmitigated	7.8467	0.1106	8.4545	5.3500e-003		0.3943	0.3943		0.3943	0.3943	36.2894	24.5772	60.8666	0.0677	2.3800e-003	63.2678

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8532					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.8366	0.0423	2.5290	5.0300e-003		0.3616	0.3616		0.3616	0.3616	36.2894	14.9058	51.1952	0.0583	2.3800e-003	53.3625
Landscaping	0.1795	0.0683	5.9254	3.1000e-004		0.0327	0.0327		0.0327	0.0327	0.0000	9.6713	9.6713	9.3600e-003	0.0000	9.9053
Total	7.8467	0.1106	8.4545	5.3400e-003		0.3943	0.3943		0.3943	0.3943	36.2894	24.5772	60.8666	0.0677	2.3800e-003	63.2678

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8532					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.8366	0.0423	2.5290	5.0300e-003		0.3616	0.3616		0.3616	0.3616	36.2894	14.9058	51.1952	0.0583	2.3800e-003	53.3625
Landscaping	0.1795	0.0683	5.9254	3.1000e-004		0.0327	0.0327		0.0327	0.0327	0.0000	9.6713	9.6713	9.3600e-003	0.0000	9.9053
Total	7.8467	0.1106	8.4545	5.3400e-003		0.3943	0.3943		0.3943	0.3943	36.2894	24.5772	60.8666	0.0677	2.3800e-003	63.2678

7.0 Water Detail

7.1 Mitigation Measures Water

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	226.3549	2.8644	0.0693	318.6105
Unmitigated	226.3549	2.8644	0.0693	318.6105

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 2.07318	2.1109	1.0000e-004	2.0000e-005	2.1192
Condo/Townhouse High Rise	51.8626 / 32.696	131.3824	1.6951	0.0410	185.9725
Elementary School	1.44985 / 3.72818	6.5382	0.0475	1.1700e-003	8.0755
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	31.091 / 19.0558	78.2071	1.0162	0.0246	110.9310
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.2266 / 1.97759	8.1163	0.1055	2.5500e-003	11.5123
Total		**226.3549**	**2.8644**	**0.0693**	**318.6105**

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 2.07318	2.1109	1.0000e-004	2.0000e-005	2.1192
Condo/Townhouse High Rise	51.8626 / 32.696	131.3824	1.6951	0.0410	185.9725
Elementary School	1.44985 / 3.72818	6.5382	0.0475	1.1700e-003	8.0755
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	31.091 / 19.0558	78.2071	1.0162	0.0246	110.9310
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.2266 / 1.97759	8.1163	0.1055	2.5500e-003	11.5123
Total		**226.3549**	**2.8644**	**0.0693**	**318.6105**

8.0 Waste Detail

8.1 Mitigation Measures Waste

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	129.8594	7.6745	0.0000	321.7212
Unmitigated	129.8594	7.6745	0.0000	321.7212

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.15	0.0305	1.8000e-003	0.0000	0.0754
Condo/Townhouse High Rise	366.16	74.3272	4.3926	0.0000	184.1424
Elementary School	65	13.1944	0.7798	0.0000	32.6886
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	162.68	33.0226	1.9516	0.0000	81.8120
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	45.74	9.2848	0.5487	0.0000	23.0027
Total		**129.8594**	**7.6745**	**0.0000**	**321.7212**

IB-BUILD Hamman, Hillside Cove - San Francisco County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.15	0.0305	1.8000e-003	0.0000	0.0754
Condo/Townhouse High Rise	366.16	74.3272	4.3926	0.0000	184.1424
Elementary School	65	13.1944	0.7798	0.0000	32.6886
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	162.68	33.0226	1.9516	0.0000	81.8120
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	45.74	9.2848	0.5487	0.0000	23.0027
Total		**129.8594**	**7.6745**	**0.0000**	**321.7212**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-BUILD Big Green

San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	3.74	Acre	3.74	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2022

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction and Operations; assumed operational in 2022

Land Use - Acreage/sq footage taken from Dec 2016 RFI response

Construction Phase - 6 days/work wk; all sub-phases do not overlap, default days ratio'd down

Trips and VMT - BldgC daily worker trips (calc'd) = # equip X 1.25 roundtrip/equip x 2 trips/roundtrip; and ArchC daily worker trips = 0.2 X BldgC daily worker trips (calc'd)

Vehicle Trips - LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Stationary Sources - Emergency Generators and Fire Pumps - Assumed two of the eight total emergency generators would be assigned to this portion of the project.

IB-BUILD Big Green - San Francisco County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

IB-BUILD Big Green - San Francisco County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	230.00	218.00
tblConstructionPhase	NumDays	8.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	3.50	4.00
tblLandUse	GreenSpaceSquareFeet	162,914.40	0.00
tblLandUse	LandUseSquareFeet	162,914.40	0.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	WorkerTripNumber	0.00	23.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	WD_TR	1.89	13.52

2.0 Emissions Summary

IB-BUILD Big Green - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1740	1.5445	1.3685	2.2800e-003	0.0373	0.0889	0.1262	0.0156	0.0835	0.0991	0.0000	197.4214	197.4214	0.0459	0.0000	198.5690
2021	0.0783	0.6971	0.7027	1.1800e-003	7.8700e-003	0.0382	0.0461	2.0900e-003	0.0359	0.0380	0.0000	101.8391	101.8391	0.0237	0.0000	102.4305
Maximum	**0.1740**	**1.5445**	**1.3685**	**2.2800e-003**	**0.0373**	**0.0889**	**0.1262**	**0.0156**	**0.0835**	**0.0991**	**0.0000**	**197.4214**	**197.4214**	**0.0459**	**0.0000**	**198.5690**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0315	0.1779	1.4206	2.2800e-003	0.0215	3.3600e-003	0.0249	8.3300e-003	3.3500e-003	0.0117	0.0000	197.4212	197.4212	0.0459	0.0000	198.5688
2021	0.0161	0.0864	0.7439	1.1800e-003	6.1700e-003	1.7200e-003	7.8900e-003	1.6800e-003	1.7200e-003	3.4000e-003	0.0000	101.8390	101.8390	0.0237	0.0000	102.4304
Maximum	**0.0315**	**0.1779**	**1.4206**	**2.2800e-003**	**0.0215**	**3.3600e-003**	**0.0249**	**8.3300e-003**	**3.3500e-003**	**0.0117**	**0.0000**	**197.4212**	**197.4212**	**0.0459**	**0.0000**	**198.5688**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	81.17	88.21	-4.51	0.00	38.74	96.00	80.99	43.35	95.75	89.00	0.00	0.00	0.00	0.00	0.00	0.00

IB-BUILD Big Green - San Francisco County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2020	9-30-2020	0.8700	0.1031
2	10-1-2020	12-31-2020	0.8451	0.1061
3	1-1-2021	3-31-2021	0.7121	0.0962
4	4-1-2021	6-30-2021	0.0623	0.0065
		Highest	0.8700	0.1061

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	7.2500e-003	0.0198	0.0367	3.0000e-005	8.5000e-004	6.0000e-005	9.1000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.7007	2.7007	3.6000e-004	0.0000	2.7097
Waste						0.0000	0.0000		0.0000	0.0000	0.0650	0.0000	0.0650	3.8400e-003	0.0000	0.1609
Water						0.0000	0.0000		0.0000	0.0000	0.0000	4.5372	4.5372	2.1000e-004	4.0000e-005	4.5550
Total	7.2500e-003	0.0198	0.0367	3.0000e-005	8.5000e-004	6.0000e-005	9.1000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0650	7.2380	7.3029	4.4100e-003	4.0000e-005	7.4257

IB-BUILD Big Green - San Francisco County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Area	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	7.2500e-003	0.0198	0.0367	3.0000e-005	8.5000e-004	6.0000e-005	9.1000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.7007	2.7007	3.6000e-004	0.0000	2.7097
Waste						0.0000	0.0000		0.0000	0.0000	0.0650	0.0000	0.0650	3.8400e-003	0.0000	0.1609
Water						0.0000	0.0000		0.0000	0.0000	0.0000	4.5372	4.5372	2.1000e-004	4.0000e-005	4.5550
Total	**7.2500e-003**	**0.0198**	**0.0367**	**3.0000e-005**	**8.5000e-004**	**6.0000e-005**	**9.1000e-004**	**2.3000e-004**	**6.0000e-005**	**2.9000e-004**	**0.0650**	**7.2380**	**7.3029**	**4.4100e-003**	**4.0000e-005**	**7.4257**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

IB-BUILD Big Green - San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2020	7/8/2020	6	7	
2	Building Construction	Building Construction	7/9/2020	3/19/2021	6	218	
3	Paving	Paving	3/20/2021	4/9/2021	6	18	
4	Architectural Coating	Architectural Coating	4/10/2021	4/30/2021	6	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

IB-BUILD Big Green - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0232	0.0000	0.0232	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-003	0.0924	0.0562	1.0000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	9.1206	9.1206	2.9500e-003	0.0000	9.1943
Total	8.5000e-003	0.0924	0.0562	1.0000e-004	0.0232	4.4600e-003	0.0277	0.0118	4.1000e-003	0.0159	0.0000	9.1206	9.1206	2.9500e-003	0.0000	9.1943

3.2 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.1800e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3943	0.3943	1.0000e-005	0.0000	0.3945
Total	**1.6000e-004**	**1.1000e-004**	**1.1800e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3943**	**0.3943**	**1.0000e-005**	**0.0000**	**0.3945**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0104	0.0000	0.0104	5.3200e-003	0.0000	5.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2700e-003	5.5100e-003	0.0621	1.0000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	9.1206	9.1206	2.9500e-003	0.0000	9.1943
Total	**1.2700e-003**	**5.5100e-003**	**0.0621**	**1.0000e-004**	**0.0104**	**1.7000e-004**	**0.0106**	**5.3200e-003**	**1.7000e-004**	**5.4900e-003**	**0.0000**	**9.1206**	**9.1206**	**2.9500e-003**	**0.0000**	**9.1943**

3.2 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.1800e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3943	0.3943	1.0000e-005	0.0000	0.3945
Total	**1.6000e-004**	**1.1000e-004**	**1.1800e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3943**	**0.3943**	**1.0000e-005**	**0.0000**	**0.3945**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.1601	1.4486	1.2721	2.0300e-003		0.0843	0.0843		0.0793	0.0793	0.0000	174.8655	174.8655	0.0427	0.0000	175.9321
Total	**0.1601**	**1.4486**	**1.2721**	**2.0300e-003**		**0.0843**	**0.0843**		**0.0793**	**0.0793**	**0.0000**	**174.8655**	**174.8655**	**0.0427**	**0.0000**	**175.9321**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2800e-003	3.5100e-003	0.0390	1.4000e-004	0.0137	1.1000e-004	0.0138	3.6500e-003	1.0000e-004	3.7500e-003	0.0000	13.0410	13.0410	2.9000e-004	0.0000	13.0482
Total	**5.2800e-003**	**3.5100e-003**	**0.0390**	**1.4000e-004**	**0.0137**	**1.1000e-004**	**0.0138**	**3.6500e-003**	**1.0000e-004**	**3.7500e-003**	**0.0000**	**13.0410**	**13.0410**	**2.9000e-004**	**0.0000**	**13.0482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Off-Road	0.0248	0.1687	1.3183	2.0300e-003		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	174.8653	174.8653	0.0427	0.0000	175.9319
Total	**0.0248**	**0.1687**	**1.3183**	**2.0300e-003**		**3.0800e-003**	**3.0800e-003**		**3.0800e-003**	**3.0800e-003**	**0.0000**	**174.8653**	**174.8653**	**0.0427**	**0.0000**	**175.9319**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2800e-003	3.5100e-003	0.0390	1.4000e-004	0.0108	1.1000e-004	0.0109	2.9200e-003	1.0000e-004	3.0200e-003	0.0000	13.0410	13.0410	2.9000e-004	0.0000	13.0482
Total	**5.2800e-003**	**3.5100e-003**	**0.0390**	**1.4000e-004**	**0.0108**	**1.1000e-004**	**0.0109**	**2.9200e-003**	**1.0000e-004**	**3.0200e-003**	**0.0000**	**13.0410**	**13.0410**	**2.9000e-004**	**0.0000**	**13.0482**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5985	77.5985	0.0187	0.0000	78.0665
Total	**0.0637**	**0.5840**	**0.5553**	**9.0000e-004**		**0.0321**	**0.0321**		**0.0302**	**0.0302**	**0.0000**	**77.5985**	**77.5985**	**0.0187**	**0.0000**	**78.0665**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1900e-003	1.4000e-003	0.0160	6.0000e-005	6.0900e-003	5.0000e-005	6.1300e-003	1.6200e-003	4.0000e-005	1.6600e-003	0.0000	5.5798	5.5798	1.1000e-004	0.0000	5.5826
Total	**2.1900e-003**	**1.4000e-003**	**0.0160**	**6.0000e-005**	**6.0900e-003**	**5.0000e-005**	**6.1300e-003**	**1.6200e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**5.5798**	**5.5798**	**1.1000e-004**	**0.0000**	**5.5826**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0110	0.0749	0.5849	9.0000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	77.5984	77.5984	0.0187	0.0000	78.0664
Total	**0.0110**	**0.0749**	**0.5849**	**9.0000e-004**		**1.3700e-003**	**1.3700e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**77.5984**	**77.5984**	**0.0187**	**0.0000**	**78.0664**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1900e-003	1.4000e-003	0.0160	6.0000e-005	4.7700e-003	5.0000e-005	4.8200e-003	1.3000e-003	4.0000e-005	1.3400e-003	0.0000	5.5798	5.5798	1.1000e-004	0.0000	5.5826
Total	**2.1900e-003**	**1.4000e-003**	**0.0160**	**6.0000e-005**	**4.7700e-003**	**5.0000e-005**	**4.8200e-003**	**1.3000e-003**	**4.0000e-005**	**1.3400e-003**	**0.0000**	**5.5798**	**5.5798**	**1.1000e-004**	**0.0000**	**5.5826**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8500e-003**	**0.0976**	**0.1103**	**1.7000e-004**		**5.2100e-003**	**5.2100e-003**		**4.8100e-003**	**4.8100e-003**	**0.0000**	**14.7336**	**14.7336**	**4.6300e-003**	**0.0000**	**14.8493**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.3000e-004	3.7400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3035	1.3035	3.0000e-005	0.0000	1.3042
Total	**5.1000e-004**	**3.3000e-004**	**3.7400e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.3035**	**1.3035**	**3.0000e-005**	**0.0000**	**1.3042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	1.9700e-003	8.5600e-003	0.1218	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9700e-003**	**8.5600e-003**	**0.1218**	**1.7000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**14.7335**	**14.7335**	**4.6300e-003**	**0.0000**	**14.8493**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.3000e-004	3.7400e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.3035	1.3035	3.0000e-005	0.0000	1.3042
Total	**5.1000e-004**	**3.3000e-004**	**3.7400e-003**	**1.0000e-005**	**1.1200e-003**	**1.0000e-005**	**1.1300e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**1.3035**	**1.3035**	**3.0000e-005**	**0.0000**	**1.3042**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	**1.9700e-003**	**0.0137**	**0.0164**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.6000e-004**	**0.0000**	**2.3019**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	8.0000e-005	9.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3259	0.3259	1.0000e-005	0.0000	0.3261
Total	**1.3000e-004**	**8.0000e-005**	**9.4000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3259**	**0.3259**	**1.0000e-005**	**0.0000**	**0.3261**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.1600e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	**2.7000e-004**	**1.1600e-003**	**0.0165**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2979**	**2.2979**	**1.6000e-004**	**0.0000**	**2.3019**

IB-BUILD Big Green - San Francisco County, Annual

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	8.0000e-005	9.4000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3259	0.3259	1.0000e-005	0.0000	0.3261
Total	**1.3000e-004**	**8.0000e-005**	**9.4000e-004**	**0.0000**	**2.8000e-004**	**0.0000**	**2.8000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.3259**	**0.3259**	**1.0000e-005**	**0.0000**	**0.3261**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

IB-BUILD Big Green - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.2500e-003	0.0198	0.0367	3.0000e-005	8.5000e-004	6.0000e-005	9.1000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.7007	2.7007	3.6000e-004	0.0000	2.7097
Unmitigated	7.2500e-003	0.0198	0.0367	3.0000e-005	8.5000e-004	6.0000e-005	9.1000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.7007	2.7007	3.6000e-004	0.0000	2.7097

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	50.56	50.56	50.56	2,260	2,260
Total	50.56	50.56	50.56	2,260	2,260

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492

5.0 Energy Detail

Historical Energy Use: N

IB-BUILD Big Green - San Francisco County, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					tons/yr								MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

IB-BUILD Big Green - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

IB-BUILD Big Green - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	7.0000e-005
Unmitigated	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	7.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	7.0000e-005
Total	**0.0000**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0000**	**7.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	7.0000e-005
Total	**0.0000**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0000**	**7.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category		MT/yr		
Mitigated	4.5372	2.1000e-004	4.0000e-005	4.5550
Unmitigated	4.5372	2.1000e-004	4.0000e-005	4.5550

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT/yr		
City Park	0 / 4.45614	4.5372	2.1000e-004	4.0000e-005	4.5550
Total		**4.5372**	**2.1000e-004**	**4.0000e-005**	**4.5550**

IB-BUILD Big Green - San Francisco County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.45614	4.5372	2.1000e-004	4.0000e-005	4.5550
Total		**4.5372**	**2.1000e-004**	**4.0000e-005**	**4.5550**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0650	3.8400e-003	0.0000	0.1609
Unmitigated	0.0650	3.8400e-003	0.0000	0.1609

IB-BUILD Big Green - San Francisco County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1609
Total		**0.0650**	**3.8400e-003**	**0.0000**	**0.1609**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1609
Total		**0.0650**	**3.8400e-003**	**0.0000**	**0.1609**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

IB-BUILD Big Green - San Francisco County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-BUILD Shoreline Wetlands OS
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.13	Acre	5.13	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64	
Climate Zone	5			**Operational Year**	2022	

Utility Company   Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction and Operations; assumed operational in 2022

Land Use - Acreage/sq footage taken from Dec 2016 RFI response; City Pk LU incl. Structure, Ramps, Piers Over Water sf'gcc. Near/over-water constr emiss calc'd outside CalEEMod.

Construction Phase - 6 days/work wk; all sub-phases do not overlap, default days ratio'd down

Trips and VMT - BldgC daily worker trips (calc'd) = # equip X 1.25 roundtrip/equip x 2 trips/roundtrip; and ArchC daily worker trips = 0.2 X BldgC daily worker trips (calc'd)

Vehicle Trips - LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

tblConstructionPhase	NumDays	230.00	249.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	11.00	10.00
tblLandUse	GreenSpaceSquareFeet	223,462.80	0.00
tblLandUse	LandUseSquareFeet	223,462.80	0.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	WorkerTripNumber	0.00	23.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	WD_TR	1.89	13.52

2.0 Emissions Summary

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year							tons/yr							MT/yr		
2020	0.0896	0.8387	0.6752	1.1600e-003	0.0780	0.0459	0.1239	0.0387	0.0429	0.0816	0.0000	100.8354	100.8354	0.0255	0.0000	101.4731
2021	0.2054	1.8353	1.8210	3.0600e-003	0.0192	0.1006	0.1197	5.0900e-003	0.0945	0.0996	0.0000	264.4976	264.4976	0.0613	0.0000	266.0303
Maximum	**0.2054**	**1.8353**	**1.8210**	**3.0600e-003**	**0.0780**	**0.1006**	**0.1239**	**0.0387**	**0.0945**	**0.0996**	**0.0000**	**264.4976**	**264.4976**	**0.0613**	**0.0000**	**266.0303**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year							tons/yr							MT/yr		
2020	0.0158	0.0827	0.7113	1.1600e-003	0.0373	1.7400e-003	0.0390	0.0180	1.7400e-003	0.0198	0.0000	100.8353	100.8353	0.0255	0.0000	101.4730
2021	0.0418	0.2336	1.9351	3.0600e-003	0.0150	4.5100e-003	0.0195	4.0800e-003	4.5000e-003	8.5800e-003	0.0000	264.4973	264.4973	0.0613	0.0000	266.0300
Maximum	**0.0418**	**0.2336**	**1.9351**	**3.0600e-003**	**0.0373**	**4.5100e-003**	**0.0390**	**0.0180**	**4.5000e-003**	**0.0198**	**0.0000**	**264.4973**	**264.4973**	**0.0613**	**0.0000**	**266.0300**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	80.48	88.17	-6.02	0.00	46.19	95.73	75.97	49.54	95.46	84.35	0.00	0.00	0.00	0.00	0.00	0.00

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2020	12-31-2020	0.9283	0.0986
2	1-1-2021	3-31-2021	0.7503	0.1034
3	4-1-2021	6-30-2021	0.7580	0.1039
4	7-1-2021	9-30-2021	0.5343	0.0683
		Highest	0.9283	0.1039

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	9.9500e-003	0.0271	0.0504	4.0000e-005	1.1600e-003	9.0000e-005	1.2400e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.7044	3.7044	4.9000e-004	0.0000	3.7168
Waste						0.0000	0.0000		0.0000	0.0000	0.0893	0.0000	0.0893	5.2800e-003	0.0000	0.2213
Water						0.0000	0.0000		0.0000	0.0000	0.0000	6.2235	6.2235	2.8000e-004	6.0000e-005	6.2479
Total	9.9500e-003	0.0271	0.0504	4.0000e-005	1.1600e-003	9.0000e-005	1.2400e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0893	9.9280	10.0173	6.0500e-003	6.0000e-005	10.1860

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	9.9500e-003	0.0271	0.0504	4.0000e-005	1.1600e-003	9.0000e-005	1.2400e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.7044	3.7044	4.9000e-004	0.0000	3.7168
Waste						0.0000	0.0000		0.0000	0.0000	0.0893	0.0000	0.0893	5.2800e-003	0.0000	0.2213
Water						0.0000	0.0000		0.0000	0.0000	0.0000	6.2235	6.2235	2.8000e-004	6.0000e-005	6.2479
Total	**9.9500e-003**	**0.0271**	**0.0504**	**4.0000e-005**	**1.1600e-003**	**9.0000e-005**	**1.2400e-003**	**3.1000e-004**	**8.0000e-005**	**3.9000e-004**	**0.0893**	**9.9280**	**10.0173**	**6.0500e-003**	**6.0000e-005**	**10.1860**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2020	10/26/2020	6	22	
2	Building Construction	Building Construction	10/27/2020	8/12/2021	6	249	
3	Paving	Paving	8/13/2021	9/7/2021	6	22	
4	Architectural Coating	Architectural Coating	9/8/2021	9/30/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0716	0.0000	0.0716	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2902	0.1766	3.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	28.6646	28.6646	9.2700e-003	0.0000	28.8964
Total	0.0267	0.2902	0.1766	3.3000e-004	0.0716	0.0140	0.0856	0.0370	0.0129	0.0499	0.0000	28.6646	28.6646	9.2700e-003	0.0000	28.8964

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

3.2 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.3000e-004	3.7100e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2391	1.2391	3.0000e-005	0.0000	1.2398
Total	**5.0000e-004**	**3.3000e-004**	**3.7100e-003**	**1.0000e-005**	**1.3000e-003**	**1.0000e-005**	**1.3100e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**1.2391**	**1.2391**	**3.0000e-005**	**0.0000**	**1.2398**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0322	0.0000	0.0322	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9900e-003	0.0173	0.1953	3.3000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	28.6646	28.6646	9.2700e-003	0.0000	28.8964
Total	**3.9900e-003**	**0.0173**	**0.1953**	**3.3000e-004**	**0.0322**	**5.3000e-004**	**0.0327**	**0.0166**	**5.3000e-004**	**0.0172**	**0.0000**	**28.6646**	**28.6646**	**9.2700e-003**	**0.0000**	**28.8964**

IB-BUILD Shoreline Wetlands OS - San Francisco County, Annual

3.2 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.3000e-004	3.7100e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.2391	1.2391	3.0000e-005	0.0000	1.2398
Total	**5.0000e-004**	**3.3000e-004**	**3.7100e-003**	**1.0000e-005**	**1.0200e-003**	**1.0000e-005**	**1.0300e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**1.2391**	**1.2391**	**3.0000e-005**	**0.0000**	**1.2398**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0604	0.5468	0.4802	7.7000e-004		0.0318	0.0318		0.0299	0.0299	0.0000	66.0089	66.0089	0.0161	0.0000	66.4114
Total	**0.0604**	**0.5468**	**0.4802**	**7.7000e-004**		**0.0318**	**0.0318**		**0.0299**	**0.0299**	**0.0000**	**66.0089**	**66.0089**	**0.0161**	**0.0000**	**66.4114**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9900e-003	1.3300e-003	0.0147	5.0000e-005	5.1800e-003	4.0000e-005	5.2200e-003	1.3800e-003	4.0000e-005	1.4100e-003	0.0000	4.9228	4.9228	1.1000e-004	0.0000	4.9255
Total	**1.9900e-003**	**1.3300e-003**	**0.0147**	**5.0000e-005**	**5.1800e-003**	**4.0000e-005**	**5.2200e-003**	**1.3800e-003**	**4.0000e-005**	**1.4100e-003**	**0.0000**	**4.9228**	**4.9228**	**1.1000e-004**	**0.0000**	**4.9255**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	9.3400e-003	0.0637	0.4976	7.7000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	66.0088	66.0088	0.0161	0.0000	66.4114
Total	**9.3400e-003**	**0.0637**	**0.4976**	**7.7000e-004**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**66.0088**	**66.0088**	**0.0161**	**0.0000**	**66.4114**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9900e-003	1.3300e-003	0.0147	5.0000e-005	4.0600e-003	4.0000e-005	4.1000e-003	1.1000e-003	4.0000e-005	1.1400e-003	0.0000	4.9228	4.9228	1.1000e-004	0.0000	4.9255
Total	1.9900e-003	1.3300e-003	0.0147	5.0000e-005	4.0600e-003	4.0000e-005	4.1000e-003	1.1000e-003	4.0000e-005	1.1400e-003	0.0000	4.9228	4.9228	1.1000e-004	0.0000	4.9255

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.1825	1.6735	1.5912	2.5800e-003		0.0920	0.0920		0.0865	0.0865	0.0000	222.3718	222.3718	0.0537	0.0000	223.7130
Total	0.1825	1.6735	1.5912	2.5800e-003		0.0920	0.0920		0.0865	0.0865	0.0000	222.3718	222.3718	0.0537	0.0000	223.7130

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2800e-003	4.0100e-003	0.0459	1.8000e-004	0.0175	1.3000e-004	0.0176	4.6400e-003	1.2000e-004	4.7600e-003	0.0000	15.9898	15.9898	3.3000e-004	0.0000	15.9979
Total	**6.2800e-003**	**4.0100e-003**	**0.0459**	**1.8000e-004**	**0.0175**	**1.3000e-004**	**0.0176**	**4.6400e-003**	**1.2000e-004**	**4.7600e-003**	**0.0000**	**15.9898**	**15.9898**	**3.3000e-004**	**0.0000**	**15.9979**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0315	0.2145	1.6762	2.5800e-003		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	222.3715	222.3715	0.0537	0.0000	223.7127
Total	**0.0315**	**0.2145**	**1.6762**	**2.5800e-003**		**3.9200e-003**	**3.9200e-003**		**3.9200e-003**	**3.9200e-003**	**0.0000**	**222.3715**	**222.3715**	**0.0537**	**0.0000**	**223.7127**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2800e-003	4.0100e-003	0.0459	1.8000e-004	0.0137	1.3000e-004	0.0138	3.7200e-003	1.2000e-004	3.8400e-003	0.0000	15.9898	15.9898	3.3000e-004	0.0000	15.9979
Total	**6.2800e-003**	**4.0100e-003**	**0.0459**	**1.8000e-004**	**0.0137**	**1.3000e-004**	**0.0138**	**3.7200e-003**	**1.2000e-004**	**3.8400e-003**	**0.0000**	**15.9898**	**15.9898**	**3.3000e-004**	**0.0000**	**15.9979**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.1421	0.1612	2.5000e-004		7.4500e-003	7.4500e-003		6.8600e-003	6.8600e-003	0.0000	22.0258	22.0258	7.1200e-003	0.0000	22.2039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0138**	**0.1421**	**0.1612**	**2.5000e-004**		**7.4500e-003**	**7.4500e-003**		**6.8600e-003**	**6.8600e-003**	**0.0000**	**22.0258**	**22.0258**	**7.1200e-003**	**0.0000**	**22.2039**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.0000e-004	3.4300e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1949	1.1949	2.0000e-005	0.0000	1.1955
Total	**4.7000e-004**	**3.0000e-004**	**3.4300e-003**	**1.0000e-005**	**1.3000e-003**	**1.0000e-005**	**1.3100e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**1.1949**	**1.1949**	**2.0000e-005**	**0.0000**	**1.1955**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0134	0.1903	2.5000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	22.0258	22.0258	7.1200e-003	0.0000	22.2039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.0900e-003**	**0.0134**	**0.1903**	**2.5000e-004**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**22.0258**	**22.0258**	**7.1200e-003**	**0.0000**	**22.2039**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.0000e-004	3.4300e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.1949	1.1949	2.0000e-005	0.0000	1.1955
Total	**4.7000e-004**	**3.0000e-004**	**3.4300e-003**	**1.0000e-005**	**1.0200e-003**	**1.0000e-005**	**1.0300e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**1.1949**	**1.1949**	**2.0000e-005**	**0.0000**	**1.1955**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**2.1900e-003**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

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3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.0400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3621	0.3621	1.0000e-005	0.0000	0.3623
Total	**1.4000e-004**	**9.0000e-005**	**1.0400e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3621**	**0.3621**	**1.0000e-005**	**0.0000**	**0.3623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**3.0000e-004**	**1.2900e-003**	**0.0183**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.0400e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.3621	0.3621	1.0000e-005	0.0000	0.3623
Total	**1.4000e-004**	**9.0000e-005**	**1.0400e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**8.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3621**	**0.3621**	**1.0000e-005**	**0.0000**	**0.3623**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.9500e-003	0.0271	0.0504	4.0000e-005	1.1600e-003	9.0000e-005	1.2400e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.7044	3.7044	4.9000e-004	0.0000	3.7168
Unmitigated	9.9500e-003	0.0271	0.0504	4.0000e-005	1.1600e-003	9.0000e-005	1.2400e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.7044	3.7044	4.9000e-004	0.0000	3.7168

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	69.36	69.36	69.36	3,100	3,100
Total	69.36	69.36	69.36	3,100	3,100

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					tons/yr								MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	**0.0000**	**0.0000**	**5.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**1.0000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	**0.0000**	**0.0000**	**5.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**1.0000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.2235	2.8000e-004	6.0000e-005	6.2479
Unmitigated	6.2235	2.8000e-004	6.0000e-005	6.2479

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 6.1123	6.2235	2.8000e-004	6.0000e-005	6.2479
Total		**6.2235**	**2.8000e-004**	**6.0000e-005**	**6.2479**

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 6.1123	6.2235	2.8000e-004	6.0000e-005	6.2479
Total		**6.2235**	**2.8000e-004**	**6.0000e-005**	**6.2479**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0893	5.2800e-003	0.0000	0.2213
Unmitigated	0.0893	5.2800e-003	0.0000	0.2213

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.44	0.0893	5.2800e-003	0.0000	0.2213
Total		**0.0893**	**5.2800e-003**	**0.0000**	**0.2213**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.44	0.0893	5.2800e-003	0.0000	0.2213
Total		**0.0893**	**5.2800e-003**	**0.0000**	**0.2213**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-RPD 900 Innes
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.40	1000sqft	0.19	8,400.00	0
City Park	3.71	Acre	3.71	0.00	0

1.2 Other Project Characteristics

Urbanization Urban
Wind Speed (m/s) 4.6
Precipitation Freq (Days) 64

Climate Zone 5
Operational Year 2021

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr) 641.35
CH4 Intensity (lb/MWhr) 0.029
N2O Intensity (lb/MWhr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction and Operations; assumed operational in 2020

Land Use - Acreage/sq footage taken from Dec 2016 RFI response; City Pk LU incl. Structure, Ramps, Piers Over Water sf'g

Construction Phase - 6 days/work wk; all sub-phases do not overlap, 130 days demo equip only from RFI response; balance of default days ratio'd down

Trips and VMT - BldgC daily worker trips (calc'd) = # equip X 1.25 roundtrip/equip x 2 trips/roundtrip; and ArchC daily worker trips = 0.2 X BldgC daily worker trips (calc'd)

Demolition - demo from PD

Grading - import/export amounts from RFI response

Vehicle Trips - LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00

IB-RPD 900 Innes - San Francisco County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	12.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	12.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	FleetMixLandUseSubType	General Office Building	City Park
tblFleetMix	FleetMixLandUseSubType	City Park	General Office Building

IB-RPD 900 Innes - San Francisco County, Annual

tblGrading	AcresOfGrading	2.50	4.00
tblGrading	MaterialExported	0.00	2.00
tblGrading	MaterialImported	0.00	3,817.00
tblLandUse	GreenSpaceSquareFeet	161,607.60	0.00
tblLandUse	LandUseSquareFeet	161,607.60	0.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblTripsAndVMT	WorkerTripNumber	3.00	23.00
tblTripsAndVMT	WorkerTripNumber	1.00	5.00
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CC_TL	7.30	6.62
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	6.62
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	CW_TL	9.50	6.62
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	ST_TR	2.46	8.41
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	SU_TR	1.05	8.41
tblVehicleTrips	WD_TR	1.89	13.52
tblVehicleTrips	WD_TR	11.03	8.41

2.0 Emissions Summary

IB-RPD 900 Innes - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4819	4.2197	2.9831	5.2900e-003	0.0490	0.2252	0.2742	0.0166	0.2105	0.2270	0.0000	472.1504	472.1504	0.1169	0.0000	475.0724
Maximum	**0.4819**	**4.2197**	**2.9831**	**5.2900e-003**	**0.0490**	**0.2252**	**0.2742**	**0.0166**	**0.2105**	**0.2270**	**0.0000**	**472.1504**	**472.1504**	**0.1169**	**0.0000**	**475.0724**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1138	0.4250	3.0962	5.2900e-003	0.0315	8.0700e-003	0.0396	0.0101	8.0400e-003	0.0182	0.0000	472.1499	472.1499	0.1169	0.0000	475.0719
Maximum	**0.1138**	**0.4250**	**3.0962**	**5.2900e-003**	**0.0315**	**8.0700e-003**	**0.0396**	**0.0101**	**8.0400e-003**	**0.0182**	**0.0000**	**472.1499**	**472.1499**	**0.1169**	**0.0000**	**475.0719**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	76.39	89.93	-3.79	0.00	35.69	96.42	85.56	38.93	96.18	92.00	0.00	0.00	0.00	0.00	0.00	0.00

IB-RPD 900 Innes - San Francisco County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	1.5225	0.1019
2	4-1-2019	6-30-2019	1.4474	0.1952
3	7-1-2019	9-30-2019	0.9345	0.1113
		Highest	1.5225	0.1952

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Area	0.0372	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Energy	8.8000e-004	8.0000e-003	6.7200e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	39.9106	39.9106	1.5800e-003	4.5000e-004	40.0846
Mobile	0.0252	0.0864	0.2235	6.5000e-004	0.0529	7.8000e-004	0.0537	0.0143	7.3000e-004	0.0150	0.0000	59.6103	59.6103	2.9100e-003	0.0000	59.6829
Waste						0.0000	0.0000		0.0000	0.0000	1.6503	0.0000	1.6503	0.0975	0.0000	4.0886
Water						0.0000	0.0000		0.0000	0.0000	0.4737	7.7826	8.2563	0.0490	1.2200e-003	9.8453
Total	0.0633	0.0944	0.2303	7.0000e-004	0.0529	1.3900e-003	0.0543	0.0143	1.3400e-003	0.0156	2.1240	107.3037	109.4277	0.1510	1.6700e-003	113.7016

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0372	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Energy	8.8000e-004	8.0000e-003	6.7200e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	39.9106	39.9106	1.5800e-003	4.5000e-004	40.0846
Mobile	0.0252	0.0864	0.2235	6.5000e-004	0.0529	7.8000e-004	0.0537	0.0143	7.3000e-004	0.0150	0.0000	59.6103	59.6103	2.9100e-003	0.0000	59.6829
Waste						0.0000	0.0000		0.0000	0.0000	1.6503	0.0000	1.6503	0.0975	0.0000	4.0886
Water						0.0000	0.0000		0.0000	0.0000	0.4737	7.7826	8.2563	0.0490	1.2200e-003	9.8453
Total	0.0633	0.0944	0.2303	7.0000e-004	0.0529	1.3900e-003	0.0543	0.0143	1.3400e-003	0.0156	2.1240	107.3037	109.4277	0.1510	1.6700e-003	113.7016

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

IB-RPD 900 Innes - San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	5/31/2019	6	130	
2	Grading	Grading	6/1/2019	6/6/2019	6	5	
3	Building Construction	Building Construction	6/7/2019	12/3/2019	6	154	
4	Paving	Paving	12/4/2019	12/17/2019	6	12	
5	Architectural Coating	Architectural Coating	12/18/2019	12/31/2019	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,600; Non-Residential Outdoor: 4,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

IB-RPD 900 Innes - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

IB-RPD 900 Innes - San Francisco County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	28.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	477.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Fugitive Dust					3.3200e-003	0.0000	3.3200e-003	5.0000e-004	0.0000	5.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2284	2.3259	1.4339	2.5200e-003		0.1167	0.1167		0.1085	0.1085	0.0000	225.0711	225.0711	0.0626	0.0000	226.6365
Total	0.2284	2.3259	1.4339	2.5200e-003	3.3200e-003	0.1167	0.1200	5.0000e-004	0.1085	0.1090	0.0000	225.0711	225.0711	0.0626	0.0000	226.6365

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	1.3000e-004	5.2800e-003	1.4700e-003	1.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	1.2703	1.2703	2.2000e-004	0.0000	1.2758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-003	2.2100e-003	0.0240	8.0000e-005	7.7000e-003	6.0000e-005	7.7600e-003	2.0500e-003	5.0000e-005	2.1000e-003	0.0000	7.5648	7.5648	1.8000e-004	0.0000	7.5693
Total	**3.3300e-003**	**7.4900e-003**	**0.0255**	**9.0000e-005**	**7.9300e-003**	**8.0000e-005**	**8.0100e-003**	**2.1100e-003**	**7.0000e-005**	**2.1800e-003**	**0.0000**	**8.8350**	**8.8350**	**4.0000e-004**	**0.0000**	**8.8451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					1.4900e-003	0.0000	1.4900e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0301	0.1302	1.5132	2.5200e-003		4.0100e-003	4.0100e-003		4.0100e-003	4.0100e-003	0.0000	225.0709	225.0709	0.0626	0.0000	226.6362
Total	**0.0301**	**0.1302**	**1.5132**	**2.5200e-003**	**1.4900e-003**	**4.0100e-003**	**5.5000e-003**	**2.3000e-004**	**4.0100e-003**	**4.2400e-003**	**0.0000**	**225.0709**	**225.0709**	**0.0626**	**0.0000**	**226.6362**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	5.2800e-003	1.4700e-003	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	1.2703	1.2703	2.2000e-004	0.0000	1.2758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-003	2.2100e-003	0.0240	8.0000e-005	6.0400e-003	6.0000e-005	6.1000e-003	1.6400e-003	5.0000e-005	1.7000e-003	0.0000	7.5648	7.5648	1.8000e-004	0.0000	7.5693
Total	3.3300e-003	7.4900e-003	0.0255	9.0000e-005	6.2300e-003	8.0000e-005	6.3100e-003	1.6900e-003	7.0000e-005	1.7700e-003	0.0000	8.8350	8.8350	4.0000e-004	0.0000	8.8451

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0177	0.0000	0.0177	8.5900e-003	0.0000	8.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4500e-003	0.0709	0.0407	7.0000e-005		3.4900e-003	3.4900e-003		3.2100e-003	3.2100e-003	0.0000	6.6606	6.6606	2.1100e-003	0.0000	6.7133
Total	6.4500e-003	0.0709	0.0407	7.0000e-005	0.0177	3.4900e-003	0.0212	8.5900e-003	3.2100e-003	0.0118	0.0000	6.6606	6.6606	2.1100e-003	0.0000	6.7133

IB-RPD 900 Innes - San Francisco County, Annual

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	2.1800e-003	0.0899	0.0251	2.0000e-004	4.0000e-003	3.4000e-004	4.3400e-003	1.1000e-003	3.3000e-004	1.4200e-003	0.0000	21.6399	21.6399	3.7900e-003	0.0000	21.7346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	9.2000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2910	0.2910	1.0000e-005	0.0000	0.2911
Total	**2.3000e-003**	**0.0900**	**0.0260**	**2.0000e-004**	**4.3000e-003**	**3.4000e-004**	**4.6400e-003**	**1.1800e-003**	**3.3000e-004**	**1.5000e-003**	**0.0000**	**21.9308**	**21.9308**	**3.8000e-003**	**0.0000**	**22.0257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Fugitive Dust					7.9800e-003	0.0000	7.9800e-003	3.8700e-003	0.0000	3.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	3.9300e-003	0.0444	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.6606	6.6606	2.1100e-003	0.0000	6.7132
Total	**9.1000e-004**	**3.9300e-003**	**0.0444**	**7.0000e-005**	**7.9800e-003**	**1.2000e-004**	**8.1000e-003**	**3.8700e-003**	**1.2000e-004**	**3.9900e-003**	**0.0000**	**6.6606**	**6.6606**	**2.1100e-003**	**0.0000**	**6.7132**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	2.1800e-003	0.0899	0.0251	2.0000e-004	3.2500e-003	3.4000e-004	3.5900e-003	9.1000e-004	3.3000e-004	1.2400e-003	0.0000	21.6399	21.6399	3.7900e-003	0.0000	21.7346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	9.2000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2910	0.2910	1.0000e-005	0.0000	0.2911
Total	**2.3000e-003**	**0.0900**	**0.0260**	**2.0000e-004**	**3.4800e-003**	**3.4000e-004**	**3.8200e-003**	**9.7000e-004**	**3.3000e-004**	**1.3100e-003**	**0.0000**	**21.9308**	**21.9308**	**3.8000e-003**	**0.0000**	**22.0257**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.1818	1.6231	1.3216	2.0700e-003		0.0993	0.0993		0.0934	0.0934	0.0000	181.0302	181.0302	0.0441	0.0000	182.1328
Total	**0.1818**	**1.6231**	**1.3216**	**2.0700e-003**		**0.0993**	**0.0993**		**0.0934**	**0.0934**	**0.0000**	**181.0302**	**181.0302**	**0.0441**	**0.0000**	**182.1328**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5000e-004	0.0105	3.1200e-003	2.0000e-005	5.0000e-004	7.0000e-005	5.7000e-004	1.5000e-004	6.0000e-005	2.1000e-004	0.0000	2.1528	2.1528	2.9000e-004	0.0000	2.1601
Worker	5.8000e-003	4.0200e-003	0.0436	1.5000e-004	0.0140	1.1000e-004	0.0141	3.7200e-003	1.0000e-004	3.8200e-003	0.0000	13.7407	13.7407	3.3000e-004	0.0000	13.7489
Total	**6.1500e-003**	**0.0145**	**0.0468**	**1.7000e-004**	**0.0145**	**1.8000e-004**	**0.0147**	**3.8700e-003**	**1.6000e-004**	**4.0300e-003**	**0.0000**	**15.8935**	**15.8935**	**6.2000e-004**	**0.0000**	**15.9089**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0252	0.1721	1.3444	2.0700e-003		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	181.0300	181.0300	0.0441	0.0000	182.1325
Total	**0.0252**	**0.1721**	**1.3444**	**2.0700e-003**		**3.1400e-003**	**3.1400e-003**		**3.1400e-003**	**3.1400e-003**	**0.0000**	**181.0300**	**181.0300**	**0.0441**	**0.0000**	**182.1325**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5000e-004	0.0105	3.1200e-003	2.0000e-005	4.1000e-004	7.0000e-005	4.8000e-004	1.2000e-004	6.0000e-005	1.9000e-004	0.0000	2.1528	2.1528	2.9000e-004	0.0000	2.1601
Worker	5.8000e-003	4.0200e-003	0.0436	1.5000e-004	0.0110	1.1000e-004	0.0111	2.9800e-003	1.0000e-004	3.0800e-003	0.0000	13.7407	13.7407	3.3000e-004	0.0000	13.7489
Total	**6.1500e-003**	**0.0145**	**0.0468**	**1.7000e-004**	**0.0114**	**1.8000e-004**	**0.0116**	**3.1000e-003**	**1.6000e-004**	**3.2700e-003**	**0.0000**	**15.8935**	**15.8935**	**6.2000e-004**	**0.0000**	**15.9089**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	7.6100e-003	0.0766	0.0739	1.1000e-004		4.3200e-003	4.3200e-003		3.9800e-003	3.9800e-003	0.0000	10.0334	10.0334	3.0900e-003	0.0000	10.1106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.6100e-003**	**0.0766**	**0.0739**	**1.1000e-004**		**4.3200e-003**	**4.3200e-003**		**3.9800e-003**	**3.9800e-003**	**0.0000**	**10.0334**	**10.0334**	**3.0900e-003**	**0.0000**	**10.1106**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	2.9600e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9311	0.9311	2.0000e-005	0.0000	0.9316
Total	**3.9000e-004**	**2.7000e-004**	**2.9600e-003**	**1.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.6000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.9311**	**0.9311**	**2.0000e-005**	**0.0000**	**0.9316**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3200e-003	5.7100e-003	0.0812	1.1000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	10.0334	10.0334	3.0900e-003	0.0000	10.1105
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3200e-003**	**5.7100e-003**	**0.0812**	**1.1000e-004**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**10.0334**	**10.0334**	**3.0900e-003**	**0.0000**	**10.1105**

IB-RPD 900 Innes - San Francisco County, Annual

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	2.9600e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.9311	0.9311	2.0000e-005	0.0000	0.9316
Total	**3.9000e-004**	**2.7000e-004**	**2.9600e-003**	**1.0000e-005**	**7.4000e-004**	**1.0000e-005**	**7.5000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.9311**	**0.9311**	**2.0000e-005**	**0.0000**	**0.9316**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0438					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-003	0.0110	0.0111	2.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	1.5320	1.5320	1.3000e-004	0.0000	1.5352
Total	**0.0454**	**0.0110**	**0.0111**	**2.0000e-005**		**7.7000e-004**	**7.7000e-004**		**7.7000e-004**	**7.7000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.3000e-004**	**0.0000**	**1.5352**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2328	0.2328	1.0000e-005	0.0000	0.2329
Total	**1.0000e-004**	**7.0000e-005**	**7.4000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2328**	**0.2328**	**1.0000e-005**	**0.0000**	**0.2329**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Archit. Coating	0.0438					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	7.7000e-004	0.0110	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.5320	1.5320	1.3000e-004	0.0000	1.5352
Total	**0.0440**	**7.7000e-004**	**0.0110**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.5320**	**1.5320**	**1.3000e-004**	**0.0000**	**1.5352**

IB-RPD 900 Innes - San Francisco County, Annual

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr										MT/yr					
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker		1.0000e-004	7.0000e-005	7.4000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2328	0.2328	1.0000e-005	0.0000	0.2329
Total		1.0000e-004	7.0000e-005	7.4000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2328	0.2328	1.0000e-005	0.0000	0.2329

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Mitigated	0.0252	0.0864	0.2235	6.5000e-004	0.0529	7.8000e-004	0.0537	0.0143	7.3000e-004	0.0150	0.0000	59.6103	59.6103	2.9100e-003	0.0000	59.6829
Unmitigated	0.0252	0.0864	0.2235	6.5000e-004	0.0529	7.8000e-004	0.0537	0.0143	7.3000e-004	0.0150	0.0000	59.6103	59.6103	2.9100e-003	0.0000	59.6829

4.2 Trip Summary Information

		Average Daily Trip Rate		Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	50.16	50.16	50.16	2,242	2,242
General Office Building	70.64	70.64	70.64	139,265	139,265
Total	120.80	120.80	120.80	141,507	141,507

4.3 Trip Type Information

		Miles			Trip %			Trip Purpose %	
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6
General Office Building	6.62	6.62	6.62	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.606408	0.040118	0.191445	0.088323	0.014900	0.004926	0.028280	0.008891	0.004289	0.004272	0.006741	0.000931	0.000477
General Office Building	0.606408	0.040118	0.191445	0.088323	0.014900	0.004926	0.028280	0.008891	0.004289	0.004272	0.006741	0.000931	0.000477

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.2055	31.2055	1.4100e-003	2.9000e-004	31.3278
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	31.2055	31.2055	1.4100e-003	2.9000e-004	31.3278
NaturalGas Mitigated	8.8000e-004	8.0000e-003	6.7200e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7051	8.7051	1.7000e-004	1.6000e-004	8.7569
NaturalGas Unmitigated	8.8000e-004	8.0000e-003	6.7200e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7051	8.7051	1.7000e-004	1.6000e-004	8.7569

IB-RPD 900 Innes - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	163128	8.8000e-004	8.0000e-003	6.7200e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7051	8.7051	1.7000e-004	1.6000e-004	8.7569
Total		**8.8000e-004**	**8.0000e-003**	**6.7200e-003**	**5.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**8.7051**	**8.7051**	**1.7000e-004**	**1.6000e-004**	**8.7569**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	163128	8.8000e-004	8.0000e-003	6.7200e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7051	8.7051	1.7000e-004	1.6000e-004	8.7569
Total		**8.8000e-004**	**8.0000e-003**	**6.7200e-003**	**5.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**8.7051**	**8.7051**	**1.7000e-004**	**1.6000e-004**	**8.7569**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	107268	31.2055	1.4100e-003	2.9000e-004	31.3278
Total		**31.2055**	**1.4100e-003**	**2.9000e-004**	**31.3278**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	107268	31.2055	1.4100e-003	2.9000e-004	31.3278
Total		**31.2055**	**1.4100e-003**	**2.9000e-004**	**31.3278**

6.0 Area Detail

6.1 Mitigation Measures Area

IB-RPD 900 Innes - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Mitigated	0.0372	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Unmitigated	0.0372	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory						tons/yr								MT/yr		
Architectural Coating	4.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0328					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Total	**0.0372**	**0.0000**	**1.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0328					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Total	**0.0372**	**0.0000**	**1.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

IB-RPD 900 Innes - San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.2563	0.0490	1.2200e-003	9.8453
Unmitigated	8.2563	0.0490	1.2200e-003	9.8453

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.4204	4.5008	2.0000e-004	4.0000e-005	4.5184
General Office Building	1.49296 / 0.915042	3.7554	0.0488	1.1800e-003	5.3268
Total		**8.2562**	**0.0490**	**1.2200e-003**	**9.8453**

IB-RPD 900 Innes - San Francisco County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 4.4204	4.5008	2.0000e-004	4.0000e-005	4.5184
General Office Building	1.49296 / 0.915042	3.7554	0.0488	1.1800e-003	5.3268
Total		**8.2562**	**0.0490**	**1.2200e-003**	**9.8453**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.6503	0.0975	0.0000	4.0886
Unmitigated	1.6503	0.0975	0.0000	4.0886

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1609
General Office Building	7.81	1.5854	0.0937	0.0000	3.9277
Total		**1.6503**	**0.0975**	**0.0000**	**4.0886**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1609
General Office Building	7.81	1.5854	0.0937	0.0000	3.9277
Total		**1.6503**	**0.0975**	**0.0000**	**4.0886**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-RPD Shoreline Park
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.10	1000sqft	0.14	6,100.00	0
Other Asphalt Surfaces	9.35	1000sqft	0.21	0.00	0
Other Non-Asphalt Surfaces	9.35	1000sqft	0.21	0.00	0
City Park	9.58	Acre	9.58	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2022

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Construction and Operations; assumed operational in 2021

Land Use - Acreage/sq footage taken from Dec 2016 RFI response; Pkg (asphalt/non-asphlt) = (outdoor pkg + streets/sidewalks)/2; City Pk LU incl. Structure, Ramps, Piers Over Water sf'gcc. Near/over-water constr emiss calc'd outside CalEEMod.

Construction Phase - 6 days/work wk; all sub-phases do not overlap, default days ratio'd down

Trips and VMT - BldgC daily worker trips (calc'd) = # equip X 1.25 roundtrip/equip x 2 trips/roundtrip; and ArchC daily worker trips = 0.2 X BldgC daily worker trips (calc'd)

Grading - import/export amounts from RFI response

Vehicle Trips - LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

IB-RPD Shoreline Park - San Francisco County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	241.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	30.00	24.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	FleetMixLandUseSubType	General Office Building	City Park
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	General Office Building

IB-RPD Shoreline Park - San Francisco County, Annual

tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Other Non-Asphalt Surfaces
tblGrading	AcresOfGrading	60.00	75.00
tblGrading	MaterialExported	0.00	28,358.00
tblGrading	MaterialImported	0.00	26,544.00
tblLandUse	BuildingSpaceSquareFeet	9,350.00	0.00
tblLandUse	BuildingSpaceSquareFeet	9,350.00	0.00
tblLandUse	GreenSpaceSquareFeet	417,304.80	0.00
tblLandUse	LandUseSquareFeet	9,350.00	0.00
tblLandUse	LandUseSquareFeet	9,350.00	0.00
tblLandUse	LandUseSquareFeet	417,304.80	0.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	WorkerTripNumber	2.00	23.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CC_TL	7.30	6.62
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	6.62
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	CW_TL	9.50	6.62
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	ST_TR	2.46	8.41
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	SU_TR	1.05	8.41
tblVehicleTrips	WD_TR	1.89	13.52
tblVehicleTrips	WD_TR	11.03	8.41

IB-RPD Shoreline Park - San Francisco County, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4182	4.5238	3.1525	7.6900e-003	0.2045	0.1847	0.3892	0.0682	0.1730	0.2412	0.0000	724.4878	724.4878	0.1582	0.0000	728.4417
Maximum	**0.4182**	**4.5238**	**3.1525**	**7.6900e-003**	**0.2045**	**0.1847**	**0.3892**	**0.0682**	**0.1730**	**0.2412**	**0.0000**	**724.4878**	**724.4878**	**0.1582**	**0.0000**	**728.4417**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1248	1.5528	3.2721	7.6900e-003	0.1218	0.0107	0.1326	0.0392	0.0106	0.0498	0.0000	724.4873	724.4873	0.1582	0.0000	728.4412
Maximum	**0.1248**	**1.5528**	**3.2721**	**7.6900e-003**	**0.1218**	**0.0107**	**0.1326**	**0.0392**	**0.0106**	**0.0498**	**0.0000**	**724.4873**	**724.4873**	**0.1582**	**0.0000**	**728.4412**

IB-RPD Shoreline Park - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	70.17	65.68	-3.79	0.00	40.43	94.19	65.94	42.47	93.89	79.35	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.5833	1.3521
2	4-1-2020	6-30-2020	0.8402	0.1092
3	7-1-2020	9-30-2020	0.8494	0.1104
		Highest	2.5833	1.3521

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Area	0.0270	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Energy	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	28.9827	28.9827	1.1500e-003	3.3000e-004	29.1091
Mobile	0.0305	0.0967	0.2191	5.1000e-004	0.0400	6.5000e-004	0.0406	0.0108	6.1000e-004	0.0114	0.0000	47.0171	47.0171	2.6600e-003	0.0000	47.0835
Waste						0.0000	0.0000		0.0000	0.0000	1.3174	0.0000	1.3174	0.0779	0.0000	3.2638
Water						0.0000	0.0000		0.0000	0.0000	0.3440	14.0052	14.3492	0.0360	9.7000e-004	15.5358
Total	0.0581	0.1025	0.2243	5.4000e-004	0.0400	1.0900e-003	0.0411	0.0108	1.0500e-003	0.0118	1.6614	90.0056	91.6670	0.1176	1.3000e-003	94.9929

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0270	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Energy	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	28.9827	28.9827	1.1500e-003	3.3000e-004	29.1091
Mobile	0.0305	0.0967	0.2191	5.1000e-004	0.0400	6.5000e-004	0.0406	0.0108	6.1000e-004	0.0114	0.0000	47.0171	47.0171	2.6600e-003	0.0000	47.0835
Waste						0.0000	0.0000		0.0000	0.0000	1.3174	0.0000	1.3174	0.0779	0.0000	3.2638
Water						0.0000	0.0000		0.0000	0.0000	0.3440	14.0052	14.3492	0.0360	9.7000e-004	15.5358
Total	**0.0581**	**0.1025**	**0.2243**	**5.4000e-004**	**0.0400**	**1.0900e-003**	**0.0411**	**0.0108**	**1.0500e-003**	**0.0118**	**1.6614**	**90.0056**	**91.6670**	**0.1176**	**1.3000e-003**	**94.9929**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

IB-RPD Shoreline Park - San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/18/2020	6	16	
2	Grading	Grading	1/19/2020	2/15/2020	6	24	
3	Building Construction	Building Construction	2/16/2020	11/23/2020	6	241	
4	Paving	Paving	11/24/2020	12/11/2020	6	16	
5	Architectural Coating	Architectural Coating	12/12/2020	12/31/2020	6	17	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0.42

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,150; Non-Residential Outdoor: 3,050; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

IB-RPD Shoreline Park - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	6,863.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

IB-RPD Shoreline Park - San Francisco County, Annual

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0265	0.2656	0.1740	3.1000e-004		0.0133	0.0133		0.0123	0.0123	0.0000	27.1989	27.1989	7.6800e-003	0.0000	27.3908
Total	0.0265	0.2656	0.1740	3.1000e-004		0.0133	0.0133		0.0123	0.0123	0.0000	27.1989	27.1989	7.6800e-003	0.0000	27.3908

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7000e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9012	0.9012	2.0000e-005	0.0000	0.9017
Total	**3.6000e-004**	**2.4000e-004**	**2.7000e-003**	**1.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.6000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.9012**	**0.9012**	**2.0000e-005**	**0.0000**	**0.9017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	3.7000e-003	0.0160	0.1862	3.1000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	27.1989	27.1989	7.6800e-003	0.0000	27.3908
Total	**3.7000e-003**	**0.0160**	**0.1862**	**3.1000e-004**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**27.1989**	**27.1989**	**7.6800e-003**	**0.0000**	**27.3908**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.9012	0.9012	2.0000e-005	0.0000	0.9017
Total	**3.6000e-004**	**2.4000e-004**	**2.7000e-003**	**1.0000e-005**	**7.4000e-004**	**1.0000e-005**	**7.5000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.9012**	**0.9012**	**2.0000e-005**	**0.0000**	**0.9017**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.1201	0.0000	0.1201	0.0452	0.0000	0.0452	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0534	0.6024	0.3835	7.4000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	65.3812	65.3812	0.0212	0.0000	65.9098
Total	**0.0534**	**0.6024**	**0.3835**	**7.4000e-004**	**0.1201**	**0.0261**	**0.1462**	**0.0452**	**0.0240**	**0.0692**	**0.0000**	**65.3812**	**65.3812**	**0.0212**	**0.0000**	**65.9098**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0274	1.1953	0.3535	2.8800e-003	0.0576	3.5100e-003	0.0611	0.0158	3.3600e-003	0.0192	0.0000	306.5515	306.5515	0.0549	0.0000	307.9242
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.9000e-004	5.3900e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.8024	1.8024	4.0000e-005	0.0000	1.8034
Total	**0.0281**	**1.1958**	**0.3589**	**2.9000e-003**	**0.0595**	**3.5200e-003**	**0.0630**	**0.0163**	**3.3700e-003**	**0.0197**	**0.0000**	**308.3539**	**308.3539**	**0.0550**	**0.0000**	**309.7276**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0541	0.0000	0.0541	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1400e-003	0.0396	0.3960	7.4000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	65.3811	65.3811	0.0212	0.0000	65.9097
Total	**9.1400e-003**	**0.0396**	**0.3960**	**7.4000e-004**	**0.0541**	**1.2200e-003**	**0.0553**	**0.0204**	**1.2200e-003**	**0.0216**	**0.0000**	**65.3811**	**65.3811**	**0.0212**	**0.0000**	**65.9097**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0274	1.1953	0.3535	2.8800e-003	0.0467	3.5100e-003	0.0502	0.0131	3.3600e-003	0.0165	0.0000	306.5515	306.5515	0.0549	0.0000	307.9242
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.9000e-004	5.3900e-003	2.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.2000e-004	0.0000	1.8024	1.8024	4.0000e-005	0.0000	1.8034
Total	**0.0281**	**1.1958**	**0.3589**	**2.9000e-003**	**0.0482**	**3.5200e-003**	**0.0517**	**0.0135**	**3.3700e-003**	**0.0169**	**0.0000**	**308.3539**	**308.3539**	**0.0550**	**0.0000**	**309.7276**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.2554	2.3119	2.0302	3.2400e-003		0.1346	0.1346		0.1266	0.1266	0.0000	279.0900	279.0900	0.0681	0.0000	280.7922
Total	**0.2554**	**2.3119**	**2.0302**	**3.2400e-003**		**0.1346**	**0.1346**		**0.1266**	**0.1266**	**0.0000**	**279.0900**	**279.0900**	**0.0681**	**0.0000**	**280.7922**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0151	4.4600e-003	3.0000e-005	7.9000e-004	7.0000e-005	8.5000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	3.3356	3.3356	4.5000e-004	0.0000	3.3467
Worker	8.4200e-003	5.6000e-003	0.0623	2.3000e-004	0.0219	1.7000e-004	0.0221	5.8300e-003	1.6000e-004	5.9800e-003	0.0000	20.8138	20.8138	4.6000e-004	0.0000	20.8252
Total	**8.8600e-003**	**0.0207**	**0.0668**	**2.6000e-004**	**0.0227**	**2.4000e-004**	**0.0229**	**6.0600e-003**	**2.2000e-004**	**6.2700e-003**	**0.0000**	**24.1494**	**24.1494**	**9.1000e-004**	**0.0000**	**24.1719**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0395	0.2693	2.1040	3.2400e-003		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	279.0897	279.0897	0.0681	0.0000	280.7919
Total	**0.0395**	**0.2693**	**2.1040**	**3.2400e-003**		**4.9200e-003**	**4.9200e-003**		**4.9200e-003**	**4.9200e-003**	**0.0000**	**279.0897**	**279.0897**	**0.0681**	**0.0000**	**280.7919**

IB-RPD Shoreline Park - San Francisco County, Annual

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0151	4.4600e-003	3.0000e-005	6.5000e-004	7.0000e-005	7.2000e-004	1.9000e-004	6.0000e-005	2.6000e-004	0.0000	3.3356	3.3356	4.5000e-004	0.0000	3.3467
Worker	8.4200e-003	5.6000e-003	0.0623	2.3000e-004	0.0172	1.7000e-004	0.0173	4.6700e-003	1.6000e-004	4.8200e-003	0.0000	20.8138	20.8138	4.6000e-004	0.0000	20.8252
Total	8.8600e-003	0.0207	0.0668	2.6000e-004	0.0178	2.4000e-004	0.0181	4.8600e-003	2.2000e-004	5.0800e-003	0.0000	24.1494	24.1494	9.1000e-004	0.0000	24.1719

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.1125	0.1172	1.8000e-004		6.0200e-003	6.0200e-003		5.5400e-003	5.5400e-003	0.0000	16.0226	16.0226	5.1800e-003	0.0000	16.1521
Paving	2.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0111	0.1125	0.1172	1.8000e-004		6.0200e-003	6.0200e-003		5.5400e-003	5.5400e-003	0.0000	16.0226	16.0226	5.1800e-003	0.0000	16.1521

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7000e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9012	0.9012	2.0000e-005	0.0000	0.9017
Total	**3.6000e-004**	**2.4000e-004**	**2.7000e-003**	**1.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.6000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.9012**	**0.9012**	**2.0000e-005**	**0.0000**	**0.9017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	2.2400e-003	9.7200e-003	0.1384	1.8000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	16.0226	16.0226	5.1800e-003	0.0000	16.1521
Paving	2.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.5200e-003**	**9.7200e-003**	**0.1384**	**1.8000e-004**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**16.0226**	**16.0226**	**5.1800e-003**	**0.0000**	**16.1521**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.9012	0.9012	2.0000e-005	0.0000	0.9017
Total	**3.6000e-004**	**2.4000e-004**	**2.7000e-003**	**1.0000e-005**	**7.4000e-004**	**1.0000e-005**	**7.5000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.9012**	**0.9012**	**2.0000e-005**	**0.0000**	**0.9017**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	0.0318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0600e-003	0.0143	0.0156	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.1703	2.1703	1.7000e-004	0.0000	2.1745
Total	**0.0339**	**0.0143**	**0.0156**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.1703**	**2.1703**	**1.7000e-004**	**0.0000**	**2.1745**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	9.6000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3192	0.3192	1.0000e-005	0.0000	0.3194
Total	**1.3000e-004**	**9.0000e-005**	**9.6000e-004**	**0.0000**	**3.4000e-004**	**0.0000**	**3.4000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3192**	**0.3192**	**1.0000e-005**	**0.0000**	**0.3194**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Archit. Coating	0.0318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	1.7000e-004	0.0000	2.1745
Total	**0.0321**	**1.0900e-003**	**0.0156**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**2.1703**	**2.1703**	**1.7000e-004**	**0.0000**	**2.1745**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	9.6000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3192	0.3192	1.0000e-005	0.0000	0.3194
Total	**1.3000e-004**	**9.0000e-005**	**9.6000e-004**	**0.0000**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.3192**	**0.3192**	**1.0000e-005**	**0.0000**	**0.3194**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Mitigated	0.0305	0.0967	0.2191	5.1000e-004	0.0400	6.5000e-004	0.0406	0.0108	6.1000e-004	0.0114	0.0000	47.0171	47.0171	2.6600e-003	0.0000	47.0835
Unmitigated	0.0305	0.0967	0.2191	5.1000e-004	0.0400	6.5000e-004	0.0406	0.0108	6.1000e-004	0.0114	0.0000	47.0171	47.0171	2.6600e-003	0.0000	47.0835

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	129.52	129.52	129.52	5,790	5,790
General Office Building	51.30	51.30	51.30	101,133	101,133
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	180.82	180.82	180.82	106,923	106,923

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6
General Office Building	6.62	6.62	6.62	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

IB-RPD Shoreline Park - San Francisco County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
General Office Building	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Non-Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.6611	22.6611	1.0200e-003	2.1000e-004	22.7499
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.6611	22.6611	1.0200e-003	2.1000e-004	22.7499
NaturalGas Mitigated	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3216	6.3216	1.2000e-004	1.2000e-004	6.3592
NaturalGas Unmitigated	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3216	6.3216	1.2000e-004	1.2000e-004	6.3592

IB-RPD Shoreline Park - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	118462	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3216	6.3216	1.2000e-004	1.2000e-004	6.3592
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**6.4000e-004**	**5.8100e-003**	**4.8800e-003**	**3.0000e-005**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**6.3216**	**6.3216**	**1.2000e-004**	**1.2000e-004**	**6.3592**

IB-RPD Shoreline Park - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr						tons/yr								MT/yr		
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	118462	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3216	6.3216	1.2000e-004	1.2000e-004	6.3592
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**6.4000e-004**	**5.8100e-003**	**4.8800e-003**	**3.0000e-005**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**6.3216**	**6.3216**	**1.2000e-004**	**1.2000e-004**	**6.3592**

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	77897	22.6611	1.0200e-003	2.1000e-004	22.7499
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**22.6611**	**1.0200e-003**	**2.1000e-004**	**22.7499**

IB-RPD Shoreline Park - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	77897	22.6611	1.0200e-003	2.1000e-004	22.7499
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**22.6611**	**1.0200e-003**	**2.1000e-004**	**22.7499**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0270	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Unmitigated	0.0270	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Total	**0.0270**	**0.0000**	**3.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.1000e-004**	**6.1000e-004**	**0.0000**	**0.0000**	**6.5000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Total	**0.0270**	**0.0000**	**3.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.1000e-004**	**6.1000e-004**	**0.0000**	**0.0000**	**6.5000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.3492	0.0360	9.7000e-004	15.5358
Unmitigated	14.3492	0.0360	9.7000e-004	15.5358

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 11.4144	11.6220	5.3000e-004	1.1000e-004	11.6676
General Office Building	1.08418 / 0.664495	2.7272	0.0354	8.6000e-004	3.8683
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**14.3492**	**0.0360**	**9.7000e-004**	**15.5358**

IB-RPD Shoreline Park - San Francisco County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 11.4144	11.6220	5.3000e-004	1.1000e-004	11.6676
General Office Building	1.08418 / 0.664495	2.7272	0.0354	8.6000e-004	3.8683
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**14.3492**	**0.0360**	**9.7000e-004**	**15.5358**

8.0 Waste Detail

8.1 Mitigation Measures Waste

IB-RPD Shoreline Park - San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.3174	0.0779	0.0000	3.2638
Unmitigated	1.3174	0.0779	0.0000	3.2638

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.82	0.1665	9.8400e-003	0.0000	0.4124
General Office Building	5.67	1.1510	0.0680	0.0000	2.8515
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**1.3174**	**0.0779**	**0.0000**	**3.2638**

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.82	0.1665	9.8400e-003	0.0000	0.4124
General Office Building	5.67	1.1510	0.0680	0.0000	2.8515
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**1.3174**	**0.0779**	**0.0000**	**3.2638**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

IB-RPD Shoreline Park - San Francisco County, Annual

Equipment Type	Number

11.0 Vegetation

IB-BUILD Flats and Earl Construction
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	117.04	1000sqft	0.00	117,040.00	0
Other Asphalt Surfaces	37.35	1000sqft	0.86	0.00	0
Other Non-Asphalt Surfaces	37.35	1000sqft	0.86	0.00	0
City Park	0.97	Acre	0.97	0.00	0
Condo/Townhouse High Rise	444.00	Dwelling Unit	3.10	570,819.00	1218
Regional Shopping Center	28.24	1000sqft	0.00	28,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2022

Utility Company   Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

Project Characteristics - Construction and Operations; assumed operational in 2023

Land Use - Acreage/sq footage taken from Dec 2016 RFI response

Construction Phase - 6 days/work wk; default days ratio'd up

Grading - equipment only; import/export hauling assumed in first 9 mos

Vehicle Trips - CityPk (Public Rec/OS)/other LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	558.00
tblConstructionPhase	NumDays	230.00	475.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	41.00
tblConstructionPhase	NumDays	20.00	41.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	6/24/2024	10/31/2022
tblConstructionPhase	PhaseStartDate	9/13/2022	1/19/2021
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	City Park
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	Condo/Townhouse High Rise
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

tblFleetMix	FleetMixLandUseSubType	Condo/Townhouse High Rise	Other Non-Asphalt Surfaces
tblGrading	AcresOfGrading	20.50	10.00
tblLandUse	BuildingSpaceSquareFeet	37,350.00	0.00
tblLandUse	BuildingSpaceSquareFeet	37,350.00	0.00
tblLandUse	BuildingSpaceSquareFeet	444,000.00	570,819.00
tblLandUse	GreenSpaceSquareFeet	42,253.20	0.00
tblLandUse	LandUseSquareFeet	37,350.00	0.00
tblLandUse	LandUseSquareFeet	37,350.00	0.00
tblLandUse	LandUseSquareFeet	42,253.20	0.00
tblLandUse	LandUseSquareFeet	444,000.00	570,819.00
tblLandUse	LotAcreage	2.69	0.00
tblLandUse	LotAcreage	6.94	3.10
tblLandUse	LotAcreage	0.65	0.00
tblLandUse	Population	1,270.00	1,218.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CC_TL	7.30	0.28
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	0.28
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	CW_TL	9.50	0.28
tblVehicleTrips	HO_TL	5.70	6.70
tblVehicleTrips	HS_TL	4.80	6.70
tblVehicleTrips	HW_TL	10.80	6.70
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	ST_TR	4.31	3.69
tblVehicleTrips	ST_TR	49.97	83.67

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	SU_TR	3.43	3.69
tblVehicleTrips	SU_TR	25.24	83.67
tblVehicleTrips	WD_TR	1.89	13.52
tblVehicleTrips	WD_TR	4.18	3.69
tblVehicleTrips	WD_TR	42.70	83.67

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year							tons/yr							MT/yr		
2020	0.0758	0.7754	0.5003	9.2000e-004	0.1318	0.0381	0.1700	0.0693	0.0353	0.1046	0.0000	81.0034	81.0034	0.0235	0.0000	81.5909
2021	2.7958	4.3464	4.6380	0.0129	0.7333	0.1723	0.9056	0.2309	0.1626	0.3935	0.0000	1,182.525 2	1,182.525 2	0.1406	0.0000	1,186.040 5
2022	2.2887	2.5468	3.0442	8.2400e-003	0.3859	0.0979	0.4838	0.1036	0.0924	0.1960	0.0000	753.0782	753.0782	0.0929	0.0000	755.4009
Maximum	**2.7958**	**4.3464**	**4.6380**	**0.0129**	**0.7333**	**0.1723**	**0.9056**	**0.2309**	**0.1626**	**0.3935**	**0.0000**	**1,182.525 2**	**1,182.525 2**	**0.1406**	**0.0000**	**1,186.040 5**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year							tons/yr							MT/yr		
2020	0.0119	0.0473	0.5422	9.2000e-004	0.0604	1.4500e-003	0.0618	0.0315	1.4500e-003	0.0329	0.0000	81.0034	81.0034	0.0235	0.0000	81.5908
2021	2.5187	1.6999	4.7863	0.0129	0.5347	0.0138	0.5485	0.1618	0.0134	0.1752	0.0000	1,182.524 8	1,182.524 8	0.1406	0.0000	1,186.040 0
2022	2.1272	0.9931	3.1993	8.2400e-003	0.3042	8.8900e-003	0.3131	0.0836	8.6200e-003	0.0922	0.0000	753.0778	753.0778	0.0929	0.0000	755.4005
Maximum	**2.5187**	**1.6999**	**4.7863**	**0.0129**	**0.5347**	**0.0138**	**0.5485**	**0.1618**	**0.0134**	**0.1752**	**0.0000**	**1,182.524 8**	**1,182.524 8**	**0.1406**	**0.0000**	**1,186.040 0**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	9.74	64.27	-4.22	0.00	28.12	92.17	40.79	31.43	91.93	56.74	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2020	1-31-2021	1.3275	0.2337
2	2-1-2021	4-30-2021	1.7788	1.0786
3	5-1-2021	7-31-2021	1.8277	1.1039
4	8-1-2021	10-31-2021	1.8333	1.1095
5	11-1-2021	1-31-2022	1.8078	1.1125
6	2-1-2022	4-30-2022	1.6741	1.0556
7	5-1-2022	7-31-2022	1.6895	1.0589
8	8-1-2022	9-30-2022	0.6705	0.4347
		Highest	1.8333	1.1125

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Area	3.8905	0.0617	4.7130	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7034	33.9453	0.0377	1.3300e-003	35.2843
Energy	0.0281	0.2404	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	1,213.0209	1,213.0209	0.0476	0.0138	1,218.3366
Mobile	0.7372	2.4979	6.0500	0.0168	1.3872	0.0202	1.4074	0.3737	0.0189	0.3926	0.0000	1,548.5264	1,548.5264	0.0776	0.0000	1,550.4660
Waste						0.0000	0.0000		0.0000	0.0000	47.4938	0.0000	47.4938	2.8068	0.0000	117.6639
Water						0.0000	0.0000		0.0000	0.0000	9.8413	69.8809	79.7222	1.0140	0.0245	112.3782
Total	4.6558	2.8000	10.8680	0.0214	1.3872	0.2596	1.6467	0.3737	0.2583	0.6320	77.5769	2,845.1316	2,922.7085	3.9837	0.0397	3,034.1290

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.8905	0.0617	4.7130	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7034	33.9453	0.0377	1.3300e-003	35.2843
Energy	0.0281	0.2404	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	1,213.0209	1,213.0209	0.0476	0.0138	1,218.3366
Mobile	0.7372	2.4979	6.0500	0.0168	1.3872	0.0202	1.4074	0.3737	0.0189	0.3926	0.0000	1,548.5264	1,548.5264	0.0776	0.0000	1,550.4660
Waste						0.0000	0.0000		0.0000	0.0000	47.4938	0.0000	47.4938	2.8068	0.0000	117.6639
Water						0.0000	0.0000		0.0000	0.0000	9.8413	69.8809	79.7222	1.0140	0.0245	112.3782
Total	**4.6558**	**2.8000**	**10.8680**	**0.0214**	**1.3872**	**0.2596**	**1.6467**	**0.3737**	**0.2583**	**0.6320**	**77.5769**	**2,845.1316**	**2,922.7085**	**3.9837**	**0.0397**	**3,034.1290**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2020	12/1/2020	6	26	
2	Grading	Grading	12/2/2020	1/18/2021	6	41	
3	Building Construction	Building Construction	1/19/2021	7/26/2022	6	475	
4	Paving	Paving	7/27/2022	9/12/2022	6	41	
5	Architectural Coating	Architectural Coating	1/19/2021	10/31/2022	6	558	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.72

Residential Indoor: 1,155,908; Residential Outdoor: 385,303; Non-Residential Indoor: 42,360; Non-Residential Outdoor: 14,120; Striped Parking Area: 7,022 (Architectural Coating – sqft)

OffRoad Equipment

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	378.00	71.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	76.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4316	0.2828	5.0000e-004		0.0216	0.0216		0.0200	0.0200	0.0000	44.1982	44.1982	0.0125	0.0000	44.5101
Total	**0.0431**	**0.4316**	**0.2828**	**5.0000e-004**		**0.0216**	**0.0216**		**0.0200**	**0.0200**	**0.0000**	**44.1982**	**44.1982**	**0.0125**	**0.0000**	**44.5101**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.5400e-003**	**1.0000e-005**	**1.5500e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	6.0100e-003	0.0260	0.3026	5.0000e-004		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	44.1981	44.1981	0.0125	0.0000	44.5101
Total	**6.0100e-003**	**0.0260**	**0.3026**	**5.0000e-004**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**44.1981**	**44.1981**	**0.0125**	**0.0000**	**44.5101**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.2100e-003**	**1.0000e-005**	**1.2200e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.1288	0.0000	0.1288	0.0684	0.0000	0.0684	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3430	0.2087	3.9000e-004		0.0166	0.0166		0.0152	0.0152	0.0000	33.8764	33.8764	0.0110	0.0000	34.1503
Total	**0.0316**	**0.3430**	**0.2087**	**3.9000e-004**	**0.1288**	**0.0166**	**0.1453**	**0.0684**	**0.0152**	**0.0837**	**0.0000**	**33.8764**	**33.8764**	**0.0110**	**0.0000**	**34.1503**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.5400e-003**	**1.0000e-005**	**1.5500e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0579	0.0000	0.0579	0.0308	0.0000	0.0308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7200e-003	0.0205	0.2308	3.9000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	33.8763	33.8763	0.0110	0.0000	34.1502
Total	**4.7200e-003**	**0.0205**	**0.2308**	**3.9000e-004**	**0.0579**	**6.3000e-004**	**0.0586**	**0.0308**	**6.3000e-004**	**0.0314**	**0.0000**	**33.8763**	**33.8763**	**0.0110**	**0.0000**	**34.1502**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.2100e-003**	**1.0000e-005**	**1.2200e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Fugitive Dust					0.1288	0.0000	0.1288	0.0684	0.0000	0.0684	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0172	0.1855	0.1189	2.2000e-004		8.7000e-003	8.7000e-003		8.0000e-003	8.0000e-003	0.0000	19.5403	19.5403	6.3200e-003	0.0000	19.6983
Total	**0.0172**	**0.1855**	**0.1189**	**2.2000e-004**	**0.1288**	**8.7000e-003**	**0.1375**	**0.0684**	**8.0000e-003**	**0.0764**	**0.0000**	**19.5403**	**19.5403**	**6.3200e-003**	**0.0000**	**19.6983**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.0000e-004	2.3400e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8147	0.8147	2.0000e-005	0.0000	0.8151
Total	**3.2000e-004**	**2.0000e-004**	**2.3400e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**9.0000e-004**	**2.4000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.8147**	**0.8147**	**2.0000e-005**	**0.0000**	**0.8151**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0579	0.0000	0.0579	0.0308	0.0000	0.0308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7200e-003	0.0118	0.1332	2.2000e-004		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	19.5403	19.5403	6.3200e-003	0.0000	19.6982
Total	**2.7200e-003**	**0.0118**	**0.1332**	**2.2000e-004**	**0.0579**	**3.6000e-004**	**0.0583**	**0.0308**	**3.6000e-004**	**0.0312**	**0.0000**	**19.5403**	**19.5403**	**6.3200e-003**	**0.0000**	**19.6982**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.0000e-004	2.3400e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.8147	0.8147	2.0000e-005	0.0000	0.8151
Total	**3.2000e-004**	**2.0000e-004**	**2.3400e-003**	**1.0000e-005**	**7.0000e-004**	**1.0000e-005**	**7.0000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.8147**	**0.8147**	**2.0000e-005**	**0.0000**	**0.8151**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Off-Road	0.2832	2.5974	2.4697	4.0100e-003		0.1428	0.1428		0.1343	0.1343	0.0000	345.1395	345.1395	0.0833	0.0000	347.2212
Total	**0.2832**	**2.5974**	**2.4697**	**4.0100e-003**		**0.1428**	**0.1428**		**0.1343**	**0.1343**	**0.0000**	**345.1395**	**345.1395**	**0.0833**	**0.0000**	**347.2212**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0323	1.2128	0.3701	2.8200e-003	0.0691	2.7200e-003	0.0719	0.0200	2.6000e-003	0.0226	0.0000	289.1129	289.1129	0.0384	0.0000	290.0718
Worker	0.1603	0.1024	1.1707	4.5100e-003	0.4451	3.3600e-003	0.4484	0.1184	3.1000e-003	0.1215	0.0000	407.8690	407.8690	8.3600e-003	0.0000	408.0780
Total	**0.1926**	**1.3152**	**1.5409**	**7.3300e-003**	**0.5142**	**6.0800e-003**	**0.5203**	**0.1384**	**5.7000e-003**	**0.1441**	**0.0000**	**696.9818**	**696.9818**	**0.0467**	**0.0000**	**698.1497**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.0489	0.3330	2.6016	4.0100e-003		6.0800e-003	6.0800e-003		6.0800e-003	6.0800e-003	0.0000	345.1391	345.1391	0.0833	0.0000	347.2208
Total	**0.0489**	**0.3330**	**2.6016**	**4.0100e-003**		**6.0800e-003**	**6.0800e-003**		**6.0800e-003**	**6.0800e-003**	**0.0000**	**345.1391**	**345.1391**	**0.0833**	**0.0000**	**347.2208**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0323	1.2128	0.3701	2.8200e-003	0.0569	2.7200e-003	0.0597	0.0170	2.6000e-003	0.0196	0.0000	289.1129	289.1129	0.0384	0.0000	290.0718
Worker	0.1603	0.1024	1.1707	4.5100e-003	0.3489	3.3600e-003	0.3523	0.0948	3.1000e-003	0.0979	0.0000	407.8690	407.8690	8.3600e-003	0.0000	408.0780
Total	0.1926	1.3152	1.5409	7.3300e-003	0.4059	6.0800e-003	0.4120	0.1118	5.7000e-003	0.1175	0.0000	696.9818	696.9818	0.0467	0.0000	698.1497

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.1510	1.3820	1.4482	2.3800e-003		0.0716	0.0716		0.0674	0.0674	0.0000	205.0768	205.0768	0.0491	0.0000	206.3051
Total	0.1510	1.3820	1.4482	2.3800e-003		0.0716	0.0716		0.0674	0.0674	0.0000	205.0768	205.0768	0.0491	0.0000	206.3051

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.6820	0.2158	1.6400e-003	0.0411	1.4300e-003	0.0425	0.0119	1.3700e-003	0.0132	0.0000	169.4538	169.4538	0.0225	0.0000	170.0157
Worker	0.0898	0.0549	0.6482	2.5800e-003	0.2643	1.9700e-003	0.2663	0.0703	1.8100e-003	0.0721	0.0000	233.2628	233.2628	4.4900e-003	0.0000	233.3752
Total	**0.1078**	**0.7370**	**0.8639**	**4.2200e-003**	**0.3054**	**3.4000e-003**	**0.3088**	**0.0822**	**3.1800e-003**	**0.0854**	**0.0000**	**402.7166**	**402.7166**	**0.0270**	**0.0000**	**403.3908**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.0290	0.1978	1.5452	2.3800e-003		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	205.0766	205.0766	0.0491	0.0000	206.3049
Total	**0.0290**	**0.1978**	**1.5452**	**2.3800e-003**		**3.6100e-003**	**3.6100e-003**		**3.6100e-003**	**3.6100e-003**	**0.0000**	**205.0766**	**205.0766**	**0.0491**	**0.0000**	**206.3049**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.6820	0.2158	1.6400e-003	0.0338	1.4300e-003	0.0353	0.0101	1.3700e-003	0.0115	0.0000	169.4538	169.4538	0.0225	0.0000	170.0157
Worker	0.0898	0.0549	0.6482	2.5800e-003	0.2073	1.9700e-003	0.2092	0.0563	1.8100e-003	0.0581	0.0000	233.2628	233.2628	4.4900e-003	0.0000	233.3752
Total	**0.1078**	**0.7370**	**0.8639**	**4.2200e-003**	**0.2411**	**3.4000e-003**	**0.2445**	**0.0664**	**3.1800e-003**	**0.0696**	**0.0000**	**402.7166**	**402.7166**	**0.0270**	**0.0000**	**403.3908**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0226	0.2281	0.2989	4.7000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	41.0565	41.0565	0.0133	0.0000	41.3885
Paving	1.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0237**	**0.2281**	**0.2989**	**4.7000e-004**		**0.0116**	**0.0116**		**0.0107**	**0.0107**	**0.0000**	**41.0565**	**41.0565**	**0.0133**	**0.0000**	**41.3885**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.1000e-004	5.9600e-003	2.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.1442	2.1442	4.0000e-005	0.0000	2.1452
Total	8.3000e-004	5.1000e-004	5.9600e-003	2.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.1442	2.1442	4.0000e-005	0.0000	2.1452

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7500e-003	0.0249	0.3546	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	41.0564	41.0564	0.0133	0.0000	41.3884
Paving	1.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.8800e-003	0.0249	0.3546	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	41.0564	41.0564	0.0133	0.0000	41.3884

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.1000e-004	5.9600e-003	2.0000e-005	1.9100e-003	2.0000e-005	1.9200e-003	5.2000e-004	2.0000e-005	5.3000e-004	0.0000	2.1442	2.1442	4.0000e-005	0.0000	2.1452
Total	**8.3000e-004**	**5.1000e-004**	**5.9600e-003**	**2.0000e-005**	**1.9100e-003**	**2.0000e-005**	**1.9200e-003**	**5.2000e-004**	**2.0000e-005**	**5.3000e-004**	**0.0000**	**2.1442**	**2.1442**	**4.0000e-005**	**0.0000**	**2.1452**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	2.2376					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.2275	0.2708	4.4000e-004		0.0140	0.0140		0.0140	0.0140	0.0000	38.0435	38.0435	2.6100e-003	0.0000	38.1088
Total	**2.2702**	**0.2275**	**0.2708**	**4.4000e-004**		**0.0140**	**0.0140**		**0.0140**	**0.0140**	**0.0000**	**38.0435**	**38.0435**	**2.6100e-003**	**0.0000**	**38.1088**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0206	0.2354	9.1000e-004	0.0895	6.8000e-004	0.0902	0.0238	6.2000e-004	0.0244	0.0000	82.0054	82.0054	1.6800e-003	0.0000	82.0474
Total	**0.0322**	**0.0206**	**0.2354**	**9.1000e-004**	**0.0895**	**6.8000e-004**	**0.0902**	**0.0238**	**6.2000e-004**	**0.0244**	**0.0000**	**82.0054**	**82.0054**	**1.6800e-003**	**0.0000**	**82.0474**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	2.2376					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4300e-003	0.0192	0.2730	4.4000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	38.0434	38.0434	2.6100e-003	0.0000	38.1087
Total	**2.2420**	**0.0192**	**0.2730**	**4.4000e-004**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**38.0434**	**38.0434**	**2.6100e-003**	**0.0000**	**38.1087**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0206	0.2354	9.1000e-004	0.0702	6.8000e-004	0.0708	0.0191	6.2000e-004	0.0197	0.0000	82.0054	82.0054	1.6800e-003	0.0000	82.0474
Total	**0.0322**	**0.0206**	**0.2354**	**9.1000e-004**	**0.0702**	**6.8000e-004**	**0.0708**	**0.0191**	**6.2000e-004**	**0.0197**	**0.0000**	**82.0054**	**82.0054**	**1.6800e-003**	**0.0000**	**82.0474**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	1.9523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	**1.9789**	**0.1831**	**0.2358**	**3.9000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2463**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0162	0.1914	7.6000e-004	0.0781	5.8000e-004	0.0787	0.0208	5.4000e-004	0.0213	0.0000	68.8918	68.8918	1.3300e-003	0.0000	68.9250
Total	**0.0265**	**0.0162**	**0.1914**	**7.6000e-004**	**0.0781**	**5.8000e-004**	**0.0787**	**0.0208**	**5.4000e-004**	**0.0213**	**0.0000**	**68.8918**	**68.8918**	**1.3300e-003**	**0.0000**	**68.9250**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	1.9523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0167	0.2382	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	**1.9561**	**0.0167**	**0.2382**	**3.9000e-004**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2463**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0162	0.1914	7.6000e-004	0.0612	5.8000e-004	0.0618	0.0166	5.4000e-004	0.0172	0.0000	68.8918	68.8918	1.3300e-003	0.0000	68.9250
Total	**0.0265**	**0.0162**	**0.1914**	**7.6000e-004**	**0.0612**	**5.8000e-004**	**0.0618**	**0.0166**	**5.4000e-004**	**0.0172**	**0.0000**	**68.8918**	**68.8918**	**1.3300e-003**	**0.0000**	**68.9250**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7372	2.4979	6.0500	0.0168	1.3872	0.0202	1.4074	0.3737	0.0189	0.3926	0.0000	1,548.5264	1,548.5264	0.0776	0.0000	1,550.4660
Unmitigated	0.7372	2.4979	6.0500	0.0168	1.3872	0.0202	1.4074	0.3737	0.0189	0.3926	0.0000	1,548.5264	1,548.5264	0.0776	0.0000	1,550.4660

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	13.11	13.11	13.11	586	586
Condo/Townhouse High Rise	1,638.36	1,638.36	1638.36	3,547,913	3,547,913
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	2,362.84	2,362.84	2362.84	160,576	160,576
Total	4,014.32	4,014.32	4,014.32	3,709,075	3,709,075

4.3 Trip Type Information

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	6.70	6.70	6.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.28	0.28	0.28	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Condo/Townhouse High Rise	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Enclosed Parking with Elevator	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Non-Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Regional Shopping Center	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category				tons/yr									MT/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	935.0145	935.0145	0.0423	8.7500e-003	938.6782
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	935.0145	935.0145	0.0423	8.7500e-003	938.6782
NaturalGas Mitigated	0.0281	0.2404	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	278.0064	278.0064	5.3300e-003	5.1000e-003	279.6584
NaturalGas Unmitigated	0.0281	0.2404	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	278.0064	278.0064	5.3300e-003	5.1000e-003	279.6584

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	5.07917e +006	0.0274	0.2340	0.0996	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	271.0440	271.0440	5.2200e-003	4.9700e-003	272.6547
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	130469	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9623	6.9623	1.3000e-004	1.3000e-004	7.0037
Total		**0.0281**	**0.2404**	**0.1050**	**1.5300e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**278.0064**	**278.0064**	**5.3300e-003**	**5.1000e-003**	**279.6584**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	5.07917e +006	0.0274	0.2340	0.0996	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	271.0440	271.0440	5.2000e-003	4.9700e-003	272.6547
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	130469	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9623	6.9623	1.3000e-004	1.3000e-004	7.0037
Total		**0.0281**	**0.2404**	**0.1050**	**1.5300e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**278.0064**	**278.0064**	**5.3300e-003**	**5.1000e-003**	**279.6584**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	2.12279e +006	617.5429	0.0279	5.7800e-003	619.9626
Enclosed Parking with Elevator	788850	229.4854	0.0104	2.1500e-003	230.3846
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	302450	87.9863	3.9800e-003	8.2000e-004	88.3311
Total		**935.0145**	**0.0423**	**8.7500e-003**	**938.6782**

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	2.12279e +006	617.5429	0.0279	5.7800e-003	619.9626
Enclosed Parking with Elevator	788850	229.4854	0.0104	2.1500e-003	230.3846
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	302450	87.9863	3.9800e-003	8.2000e-004	88.3311
Total		**935.0145**	**0.0423**	**8.7500e-003**	**938.6782**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8905	0.0617	4.7130	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7034	33.9453	0.0377	1.3300e-003	35.2843
Unmitigated	3.8905	0.0617	4.7130	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7034	33.9453	0.0377	1.3300e-003	35.2843

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4190					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3472					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0245	0.0236	1.4107	2.8100e-003		0.2017	0.2017		0.2017	0.2017	20.2418	8.3143	28.5561	0.0325	1.3300e-003	29.7650
Landscaping	0.0999	0.0381	3.3023	1.7000e-004		0.0182	0.0182		0.0182	0.0182	0.0000	5.3891	5.3891	5.2100e-003	0.0000	5.5193
Total	3.8905	0.0617	4.7130	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7034	33.9453	0.0377	1.3300e-003	35.2843

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4190					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3472					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0245	0.0236	1.4107	2.8100e-003		0.2017	0.2017		0.2017	0.2017	20.2418	8.3143	28.5561	0.0325	1.3300e-003	29.7650
Landscaping	0.0999	0.0381	3.3023	1.7000e-004		0.0182	0.0182		0.0182	0.0182	0.0000	5.3891	5.3891	5.2100e-003	0.0000	5.5193
Total	**3.8905**	**0.0617**	**4.7130**	**2.9800e-003**		**0.2199**	**0.2199**		**0.2199**	**0.2199**	**20.2418**	**13.7034**	**33.9453**	**0.0377**	**1.3300e-003**	**35.2843**

7.0 Water Detail

7.1 Mitigation Measures Water

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	79.7222	1.0140	0.0245	112.3782
Unmitigated	79.7222	1.0140	0.0245	112.3782

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7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use Mgal	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0 / 1.15574	1.1768	5.0000e-005	1.0000e-005	1.1814
Condo/Townhouse High Rise	28.9284 / 18.2375	73.2837	0.9455	0.0229	103.7334
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.09181 / 1.28208	5.2618	0.0684	1.6500e-003	7.4635
Total		**79.7222**	**1.0140**	**0.0245**	**112.3782**

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7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 1.15574	1.1768	5.0000e-005	1.0000e-005	1.1814
Condo/Townhouse High Rise	28.9284 / 18.2375	73.2837	0.9455	0.0229	103.7334
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.09181 / 1.28208	5.2618	0.0684	1.6500e-003	7.4635
Total		**79.7222**	**1.0140**	**0.0245**	**112.3782**

8.0 Waste Detail

8.1 Mitigation Measures Waste

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	47.4938	2.8068	0.0000	117.6639
Unmitigated	47.4938	2.8068	0.0000	117.6639

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons			MT/yr	
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Condo/Townhouse High Rise	204.24	41.4589	2.4502	0.0000	102.7126
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	29.65	6.0187	0.3557	0.0000	14.9110
Total		**47.4938**	**2.8068**	**0.0000**	**117.6639**

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Condo/Townhouse High Rise	204.24	41.4589	2.4502	0.0000	102.7126
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	29.65	6.0187	0.3557	0.0000	14.9110
Total		**47.4938**	**2.8068**	**0.0000**	**117.6639**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

IB-BUILD Flats and Earl Construction - San Francisco County, Annual

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-BUILD Beach and Pier OS

San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.34	Acre	2.34	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	4.6	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2023

Utility Company   Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction and Operations; assumed operational in 2023

Land Use - Acreage/sq footage taken from Dec 2016 RFI response; City Pk LU incl. Structure, Ramps, Piers Over Water sf'gcc. Near/over-water constr emiss calc'd outside CalEEMod.

Construction Phase - 6 days/work wk; all sub-phases do not overlap, default days ratio'd up

Trips and VMT - BldgC daily worker trips (calc'd) = # equip X 1.25 roundtrip/equip x 2 trips/roundtrip; and ArchC daily worker trips = 0.2 X BldgC daily worker trips (calc'd)

Vehicle Trips - LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

IB-BUILD Beach and Pier OS - San Francisco County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

IB-BUILD Beach and Pier OS - San Francisco County, Annual

tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	220.00	266.00
tblConstructionPhase	NumDays	6.00	23.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	11.50	3.00
tblLandUse	GreenSpaceSquareFeet	101,930.40	0.00
tblLandUse	LandUseSquareFeet	101,930.40	0.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblVehicleTrips	CC_TL	7.30	0.16
tblVehicleTrips	CNW_TL	7.30	0.16
tblVehicleTrips	CW_TL	9.50	0.16
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	WD_TR	1.89	13.52

2.0 Emissions Summary

IB-BUILD Beach and Pier OS - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0529	0.4736	0.3393	6.5000e-004	0.0741	0.0228	0.0969	0.0391	0.0215	0.0606	0.0000	54.9721	54.9721	0.0129	0.0000	55.2952
2022	0.2325	1.7918	1.8227	3.2700e-003	0.0196	0.0864	0.1060	5.2000e-003	0.0828	0.0880	0.0000	273.1513	273.1513	0.0507	0.0000	274.4179
Maximum	**0.2325**	**1.7918**	**1.8227**	**3.2700e-003**	**0.0741**	**0.0864**	**0.1060**	**0.0391**	**0.0828**	**0.0880**	**0.0000**	**273.1513**	**273.1513**	**0.0507**	**0.0000**	**274.4179**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	9.0200e-003	0.0714	0.3581	6.5000e-004	0.0345	9.4000e-004	0.0354	0.0179	9.4000e-004	0.0188	0.0000	54.9720	54.9720	0.0129	0.0000	55.2951
2022	0.0470	0.4670	1.8992	3.2700e-003	0.0153	4.4900e-003	0.0198	4.1600e-003	4.4800e-003	8.6400e-003	0.0000	273.1510	273.1510	0.0507	0.0000	274.4176
Maximum	**0.0470**	**0.4670**	**1.8992**	**3.2700e-003**	**0.0345**	**4.4900e-003**	**0.0354**	**0.0179**	**4.4800e-003**	**0.0188**	**0.0000**	**273.1510**	**273.1510**	**0.0507**	**0.0000**	**274.4176**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	80.38	76.23	-4.41	0.00	46.86	95.03	72.79	50.19	94.80	81.50	0.00	0.00	0.00	0.00	0.00	0.00

IB-BUILD Beach and Pier OS - San Francisco County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2021	1-31-2022	0.7388	0.1372
2	2-1-2022	4-30-2022	0.6313	0.1637
3	5-1-2022	7-31-2022	0.6522	0.1689
4	8-1-2022	9-30-2022	0.4325	0.1120
		Highest	0.7388	0.1689

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Area	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	4.2300e-003	0.0119	0.0212	2.0000e-005	5.3000e-004	4.0000e-005	5.7000e-004	1.4000e-004	3.0000e-005	1.8000e-004	0.0000	1.6450	1.6450	2.0000e-004	0.0000	1.6501
Waste						0.0000	0.0000		0.0000	0.0000	0.0406	0.0000	0.0406	2.4000e-003	0.0000	0.1006
Water						0.0000	0.0000		0.0000	0.0000	0.0000	2.8388	2.8388	1.3000e-004	3.0000e-005	2.8499
Total	4.2300e-003	0.0119	0.0212	2.0000e-005	5.3000e-004	4.0000e-005	5.7000e-004	1.4000e-004	3.0000e-005	1.8000e-004	0.0406	4.4838	4.5244	2.7300e-003	3.0000e-005	4.6007

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	4.2300e-003	0.0119	0.0212	2.0000e-005	5.3000e-004	4.0000e-005	5.7000e-004	1.4000e-004	3.0000e-005	1.8000e-004	0.0000	1.6450	1.6450	2.0000e-004	0.0000	1.6501
Waste						0.0000	0.0000		0.0000	0.0000	0.0406	0.0000	0.0406	2.4000e-003	0.0000	0.1006
Water						0.0000	0.0000		0.0000	0.0000	0.0000	2.8388	2.8388	1.3000e-004	3.0000e-005	2.8499
Total	**4.2300e-003**	**0.0119**	**0.0212**	**2.0000e-005**	**5.3000e-004**	**4.0000e-005**	**5.7000e-004**	**1.4000e-004**	**3.0000e-005**	**1.8000e-004**	**0.0406**	**4.4838**	**4.5244**	**2.7300e-003**	**3.0000e-005**	**4.6007**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

IB-BUILD Beach and Pier OS - San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2021	11/26/2021	6	23	
2	Building Construction	Building Construction	11/27/2021	10/3/2022	6	266	
3	Paving	Paving	10/4/2022	10/17/2022	6	12	
4	Architectural Coating	Architectural Coating	10/18/2022	10/31/2022	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

IB-BUILD Beach and Pier OS - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

IB-BUILD Beach and Pier OS - San Francisco County, Annual

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0382	0.0000	0.0382	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0210	0.2325	0.1122	2.4000e-004		0.0105	0.0105		9.6900e-003	9.6900e-003	0.0000	20.8195	20.8195	6.7300e-003	0.0000	20.9878
Total	0.0210	0.2325	0.1122	2.4000e-004	0.0708	0.0105	0.0814	0.0382	9.6900e-003	0.0479	0.0000	20.8195	20.8195	6.7300e-003	0.0000	20.9878

IB-BUILD Beach and Pier OS - San Francisco County, Annual

3.2 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.1000e-004	2.3900e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8328	0.8328	2.0000e-005	0.0000	0.8332
Total	**3.3000e-004**	**2.1000e-004**	**2.3900e-003**	**1.0000e-005**	**9.1000e-004**	**1.0000e-005**	**9.2000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.8328**	**0.8328**	**2.0000e-005**	**0.0000**	**0.8332**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Fugitive Dust					0.0319	0.0000	0.0319	0.0172	0.0000	0.0172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0126	0.1254	2.4000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	20.8194	20.8194	6.7300e-003	0.0000	20.9878
Total	**2.9000e-003**	**0.0126**	**0.1254**	**2.4000e-004**	**0.0319**	**3.9000e-004**	**0.0323**	**0.0172**	**3.9000e-004**	**0.0176**	**0.0000**	**20.8194**	**20.8194**	**6.7300e-003**	**0.0000**	**20.9878**

3.2 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.1000e-004	2.3900e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.8328	0.8328	2.0000e-005	0.0000	0.8332
Total	**3.3000e-004**	**2.1000e-004**	**2.3900e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.8328**	**0.8328**	**2.0000e-005**	**0.0000**	**0.8332**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0307	0.2404	0.2184	3.8000e-004		0.0123	0.0123		0.0118	0.0118	0.0000	31.1473	31.1473	6.1300e-003	0.0000	31.3005
Total	**0.0307**	**0.2404**	**0.2184**	**3.8000e-004**		**0.0123**	**0.0123**		**0.0118**	**0.0118**	**0.0000**	**31.1473**	**31.1473**	**6.1300e-003**	**0.0000**	**31.3005**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	5.5000e-004	6.2400e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1725	2.1725	4.0000e-005	0.0000	2.1736
Total	**8.5000e-004**	**5.5000e-004**	**6.2400e-003**	**2.0000e-005**	**2.3700e-003**	**2.0000e-005**	**2.3900e-003**	**6.3000e-004**	**2.0000e-005**	**6.5000e-004**	**0.0000**	**2.1725**	**2.1725**	**4.0000e-005**	**0.0000**	**2.1736**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	4.9400e-003	0.0581	0.2240	3.8000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	31.1473	31.1473	6.1300e-003	0.0000	31.3005
Total	**4.9400e-003**	**0.0581**	**0.2240**	**3.8000e-004**		**5.3000e-004**	**5.3000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**31.1473**	**31.1473**	**6.1300e-003**	**0.0000**	**31.3005**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	5.5000e-004	6.2400e-003	2.0000e-005	1.8600e-003	2.0000e-005	1.8800e-003	5.0000e-004	2.0000e-005	5.2000e-004	0.0000	2.1725	2.1725	4.0000e-005	0.0000	2.1736
Total	**8.5000e-004**	**5.5000e-004**	**6.2400e-003**	**2.0000e-005**	**1.8600e-003**	**2.0000e-005**	**1.8800e-003**	**5.0000e-004**	**2.0000e-005**	**5.2000e-004**	**0.0000**	**2.1725**	**2.1725**	**4.0000e-005**	**0.0000**	**2.1736**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.2190	1.7233	1.6937	2.9500e-003		0.0829	0.0829		0.0794	0.0794	0.0000	245.0625	245.0625	0.0473	0.0000	246.2445
Total	**0.2190**	**1.7233**	**1.6937**	**2.9500e-003**		**0.0829**	**0.0829**		**0.0794**	**0.0794**	**0.0000**	**245.0625**	**245.0625**	**0.0473**	**0.0000**	**246.2445**

3.3 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3400e-003	3.8800e-003	0.0457	1.8000e-004	0.0187	1.4000e-004	0.0188	4.9600e-003	1.3000e-004	5.0900e-003	0.0000	16.4559	16.4559	3.2000e-004	0.0000	16.4639
Total	**6.3400e-003**	**3.8800e-003**	**0.0457**	**1.8000e-004**	**0.0187**	**1.4000e-004**	**0.0188**	**4.9600e-003**	**1.3000e-004**	**5.0900e-003**	**0.0000**	**16.4559**	**16.4559**	**3.2000e-004**	**0.0000**	**16.4639**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0389	0.4567	1.7624	2.9500e-003		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	245.0622	245.0622	0.0473	0.0000	246.2442
Total	**0.0389**	**0.4567**	**1.7624**	**2.9500e-003**		**4.1500e-003**	**4.1500e-003**		**4.1500e-003**	**4.1500e-003**	**0.0000**	**245.0622**	**245.0622**	**0.0473**	**0.0000**	**246.2442**

3.3 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3400e-003	3.8800e-003	0.0457	1.8000e-004	0.0146	1.4000e-004	0.0148	3.9700e-003	1.3000e-004	4.1000e-003	0.0000	16.4559	16.4559	3.2000e-004	0.0000	16.4639
Total	**6.3400e-003**	**3.8800e-003**	**0.0457**	**1.8000e-004**	**0.0146**	**1.4000e-004**	**0.0148**	**3.9700e-003**	**1.3000e-004**	**4.1000e-003**	**0.0000**	**16.4559**	**16.4559**	**3.2000e-004**	**0.0000**	**16.4639**

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	5.6500e-003	0.0560	0.0702	1.1000e-004		2.9300e-003	2.9300e-003		2.7000e-003	2.7000e-003	0.0000	9.3060	9.3060	2.9500e-003	0.0000	9.3798
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6500e-003**	**0.0560**	**0.0702**	**1.1000e-004**		**2.9300e-003**	**2.9300e-003**		**2.7000e-003**	**2.7000e-003**	**0.0000**	**9.3060**	**9.3060**	**2.9500e-003**	**0.0000**	**9.3798**

3.4 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.5000e-004	1.7400e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6276	0.6276	1.0000e-005	0.0000	0.6279
Total	**2.4000e-004**	**1.5000e-004**	**1.7400e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6276**	**0.6276**	**1.0000e-005**	**0.0000**	**0.6279**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	1.2600e-003	5.4700e-003	0.0778	1.1000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	9.3060	9.3060	2.9500e-003	0.0000	9.3798
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2600e-003**	**5.4700e-003**	**0.0778**	**1.1000e-004**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**	**0.0000**	**9.3060**	**9.3060**	**2.9500e-003**	**0.0000**	**9.3798**

3.4 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.6000e-004	1.0000e-005	5.6000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.6276	0.6276	1.0000e-005	0.0000	0.6279
Total	**2.4000e-004**	**1.5000e-004**	**1.7400e-003**	**1.0000e-005**	**5.6000e-004**	**1.0000e-005**	**5.6000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.6276**	**0.6276**	**1.0000e-005**	**0.0000**	**0.6279**

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2300e-003	8.4500e-003	0.0109	2.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	1.5320	1.5320	1.0000e-004	0.0000	1.5345
Total	**1.2300e-003**	**8.4500e-003**	**0.0109**	**2.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.0000e-004**	**0.0000**	**1.5345**

3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1674	0.1674	0.0000	0.0000	0.1674
Total	**6.0000e-005**	**4.0000e-005**	**4.7000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1674**	**0.1674**	**0.0000**	**0.0000**	**0.1674**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	7.7000e-004	0.0110	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.5320	1.5320	1.0000e-004	0.0000	1.5344
Total	**1.8000e-004**	**7.7000e-004**	**0.0110**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.5320**	**1.5320**	**1.0000e-004**	**0.0000**	**1.5344**

3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1674	0.1674	0.0000	0.0000	0.1674
Total	**6.0000e-005**	**4.0000e-005**	**4.7000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1674**	**0.1674**	**0.0000**	**0.0000**	**0.1674**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.2300e-003	0.0119	0.0212	2.0000e-005	5.3000e-004	4.0000e-005	5.7000e-004	1.4000e-004	3.0000e-005	1.8000e-004	0.0000	1.6450	1.6450	2.0000e-004	0.0000	1.6501
Unmitigated	4.2300e-003	0.0119	0.0212	2.0000e-005	5.3000e-004	4.0000e-005	5.7000e-004	1.4000e-004	3.0000e-005	1.8000e-004	0.0000	1.6450	1.6450	2.0000e-004	0.0000	1.6501

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	31.64	31.64	31.64	1,414	1,414
Total	31.64	31.64	31.64	1,414	1,414

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.16	0.16	0.16	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Unmitigated	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Total	**0.0000**	**0.0000**	**2.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0000**	**4.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Total	**0.0000**	**0.0000**	**2.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0000**	**4.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

Category	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.8388	1.3000e-004	3.0000e-005	2.8499
Unmitigated	2.8388	1.3000e-004	3.0000e-005	2.8499

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 2.78807	2.8388	1.3000e-004	3.0000e-005	2.8499
Total		**2.8388**	**1.3000e-004**	**3.0000e-005**	**2.8499**

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.78807	2.8388	1.3000e-004	3.0000e-005	2.8499
Total		**2.8388**	**1.3000e-004**	**3.0000e-005**	**2.8499**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0406	2.4000e-003	0.0000	0.1006
Unmitigated	0.0406	2.4000e-003	0.0000	0.1006

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.2	0.0406	2.4000e-003	0.0000	0.1006
Total		**0.0406**	**2.4000e-003**	**0.0000**	**0.1006**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.2	0.0406	2.4000e-003	0.0000	0.1006
Total		**0.0406**	**2.4000e-003**	**0.0000**	**0.1006**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	860.00	1000sqft	4.80	860,000.00	0
Elementary School	50.00	1000sqft	0.50	50,000.00	0
Enclosed Parking with Elevator	593.95	1000sqft	0.00	593,950.00	0
Other Asphalt Surfaces	58.99	1000sqft	1.35	0.00	0
Other Non-Asphalt Surfaces	58.99	1000sqft	1.35	0.00	0
City Park	1.74	Acre	1.74	0.00	0
Condo/Townhouse High Rise	56.00	Dwelling Unit	1.70	263,885.00	153
Regional Shopping Center	83.16	1000sqft	0.00	83,160.00	0

1.2 Other Project Characteristics

Urbanization　Urban　　　　**Wind Speed (m/s)**　4.6　　　**Precipitation Freq (Days)**　64

Climate Zone　5　　　　　　　　　　　　　　　　　　**Operational Year**　2022

Utility Company　Pacific Gas & Electric Company

CO2 Intensity　641.35　　　**CH4 Intensity**　0.029　　　**N2O Intensity**　0.006
(lb/MWhr)　　　　　　　　　**(lb/MWhr)**　　　　　　　　**(lb/MWhr)**

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Construction and Operations; assumed operational in 2022

Land Use - Acreage/sq footage taken from Dec 2016 RFI response; 56 du x 2.74 residents/du (density, from F&P Daily VMT calcs) = 153; Pkg (asphalt/non-asphlt) = (outdoor pkg + streets/sidewalks)/2; Resid LU incl. Cmmn Courtyd +Roof Terrace sfg's

Construction Phase - 6 days/work wk; default days ratio'd up

Grading - equipment only; import/export hauling assumed in first 9 mos

Vehicle Trips - CityPk (Public Rec/OS) LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Stationary Sources - Emergency Generators and Fire Pumps - Assumed four of the eight total emergency generators would be assigned to this portion of the project.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	648.00
tblConstructionPhase	NumDays	300.00	572.00
tblConstructionPhase	NumDays	30.00	57.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	12/27/2022	1/30/2021
tblConstructionPhase	PhaseStartDate	12/2/2020	1/6/2019
tblFleetMix	FleetMixLandUseSubType	General Office Building	City Park
tblFleetMix	FleetMixLandUseSubType	Elementary School	Condo/Townhouse High Rise

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	Elementary School
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	General Office Building
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Condo/Townhouse High Rise	Other Non-Asphalt Surfaces
tblGrading	AcresOfGrading	142.50	75.00
tblLandUse	BuildingSpaceSquareFeet	58,990.00	0.00
tblLandUse	BuildingSpaceSquareFeet	58,990.00	0.00
tblLandUse	BuildingSpaceSquareFeet	56,000.00	263,885.00
tblLandUse	GreenSpaceSquareFeet	75,794.40	0.00
tblLandUse	LandUseSquareFeet	58,990.00	0.00
tblLandUse	LandUseSquareFeet	58,990.00	0.00
tblLandUse	LandUseSquareFeet	75,794.40	0.00
tblLandUse	LandUseSquareFeet	56,000.00	263,885.00
tblLandUse	LotAcreage	19.74	4.80
tblLandUse	LotAcreage	1.15	0.50
tblLandUse	LotAcreage	13.64	0.00
tblLandUse	LotAcreage	0.88	1.70
tblLandUse	LotAcreage	1.91	0.00
tblLandUse	Population	160.00	153.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	CC_TL	7.30	0.55
tblVehicleTrips	CC_TL	7.30	1.14
tblVehicleTrips	CC_TL	7.30	4.66
tblVehicleTrips	CC_TL	7.30	0.28
tblVehicleTrips	CNW_TL	7.30	0.55
tblVehicleTrips	CNW_TL	7.30	4.66

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

tblVehicleTrips	CNW_TL	7.30	0.28
tblVehicleTrips	CW_TL	9.50	0.55
tblVehicleTrips	CW_TL	9.50	4.66
tblVehicleTrips	CW_TL	9.50	0.28
tblVehicleTrips	HO_TL	5.70	6.42
tblVehicleTrips	HS_TL	4.80	6.42
tblVehicleTrips	HW_TL	10.80	6.42
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	ST_TR	4.31	3.85
tblVehicleTrips	ST_TR	2.46	11.95
tblVehicleTrips	ST_TR	49.97	81.59
tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	SU_TR	3.43	3.85
tblVehicleTrips	SU_TR	1.05	11.95
tblVehicleTrips	SU_TR	25.24	81.59
tblVehicleTrips	WD_TR	1.89	13.52
tblVehicleTrips	WD_TR	4.18	3.85
tblVehicleTrips	WD_TR	15.43	25.58
tblVehicleTrips	WD_TR	11.03	11.95
tblVehicleTrips	WD_TR	42.70	81.59

2.0 Emissions Summary

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr								MT/yr		
2018	0.1342	1.5489	0.9265	1.6600e-003	0.2155	0.0685	0.2840	0.0997	0.0630	0.1628	0.0000	151.4490	151.4490	0.0460	0.0000	152.5980
2019	4.3766	9.5106	7.4627	0.0258	1.3752	0.2660	1.6411	0.4144	0.2516	0.6659	0.0000	2,440.3909	2,440.3909	0.2713	0.0000	2,447.1736
2020	4.2397	7.5643	6.2424	0.0221	1.0229	0.1994	1.2223	0.2774	0.1886	0.4660	0.0000	2,095.8335	2,095.8335	0.2317	0.0000	2,101.6253
2021	0.2947	0.0228	0.0569	1.7000e-004	0.0126	1.3200e-003	0.0140	3.3600e-003	1.3100e-003	4.6700e-003	0.0000	14.8988	14.8988	4.7000e-004	0.0000	14.9104
Maximum	**4.3766**	**9.5106**	**7.4627**	**0.0258**	**1.3752**	**0.2660**	**1.6411**	**0.4144**	**0.2516**	**0.6659**	**0.0000**	**2,440.3909**	**2,440.3909**	**0.2713**	**0.0000**	**2,447.1736**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year				tons/yr									MT/yr			
2018	0.0217	0.0871	0.8722	1.6600e-003	0.0984	2.6700e-003	0.1010	0.0453	2.6700e-003	0.0479	0.0000	151.4488	151.4488	0.0460	0.0000	152.5978
2019	4.0171	6.2177	7.5060	0.0258	1.0181	0.0487	1.0668	0.3010	0.0466	0.3477	0.0000	2,440.3904	2,440.3904	0.2713	0.0000	2,447.1731
2020	3.9569	4.9283	6.3550	0.0221	0.8110	0.0320	0.8430	0.2254	0.0307	0.2561	0.0000	2,095.8331	2,095.8331	0.2317	0.0000	2,101.6248
2021	0.2922	4.5800e-003	0.0571	1.7000e-004	9.9100e-003	1.5000e-004	0.0101	2.6900e-003	1.4000e-004	2.8300e-003	0.0000	14.8988	14.8988	4.7000e-004	0.0000	14.9104
Maximum	**4.0171**	**6.2177**	**7.5060**	**0.0258**	**1.0181**	**0.0487**	**1.0668**	**0.3010**	**0.0466**	**0.3477**	**0.0000**	**2,440.3904**	**2,440.3904**	**0.2713**	**0.0000**	**2,447.1731**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	8.37	39.73	-0.69	0.00	26.23	84.40	36.08	27.74	84.12	49.63	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2018	1-31-2019	2.8187	0.8631
2	2-1-2019	4-30-2019	3.4028	2.5324
3	5-1-2019	7-31-2019	3.4852	2.5854
4	8-1-2019	10-31-2019	3.5017	2.6019
5	11-1-2019	1-31-2020	3.4551	2.5860
6	2-1-2020	4-30-2020	3.2145	2.4234
7	5-1-2020	7-31-2020	3.2582	2.4495
8	8-1-2020	10-31-2020	3.2722	2.4635

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

9	11-1-2020	1-31-2021	1.2244	0.9666
		Highest	3.5017	2.6019

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Area	5.8070	7.9200e-003	0.6099	3.8000e-004		0.0278	0.0278		0.0278	0.0278	2.5530	1.7584	4.3114	4.8400e-003	1.7000e-004	4.4823
Energy	0.1000	0.9076	0.7502	5.4600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	5,752.5413	5,752.5413	0.2343	0.0627	5,777.0856
Mobile	3.3423	11.3176	27.3956	0.0761	6.2706	0.0916	6.3621	1.6893	0.0856	1.7750	0.0000	7,002.4999	7,002.4999	0.3512	0.0000	7,011.2790
Waste						0.0000	0.0000		0.0000	0.0000	198.5313	0.0000	198.5313	11.7329	0.0000	491.8528
Water						0.0000	0.0000		0.0000	0.0000	52.0643	365.8082	417.8725	5.3641	0.1297	590.6208
Total	9.2494	12.2331	28.7556	0.0820	6.2706	0.1885	6.4590	1.6893	0.1826	1.8719	253.1486	13,122.6077	13,375.7563	17.6872	0.1926	13,875.3204

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category				tons/yr									MT/yr			
Area	5.8070	7.9200e-003	0.6099	3.8000e-004		0.0278	0.0278		0.0278	0.0278	2.5530	1.7584	4.3114	4.8400e-003	1.7000e-004	4.4823
Energy	0.1000	0.9076	0.7502	5.4600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	5,752.5413	5,752.5413	0.2343	0.0627	5,777.0856
Mobile	3.3423	11.3176	27.3956	0.0761	6.2706	0.0916	6.3621	1.6893	0.0856	1.7750	0.0000	7,002.4999	7,002.4999	0.3512	0.0000	7,011.2790
Waste						0.0000	0.0000		0.0000	0.0000	198.5313	0.0000	198.5313	11.7329	0.0000	491.8528
Water						0.0000	0.0000		0.0000	0.0000	52.0643	365.8082	417.8725	5.3641	0.1297	590.6208
Total	9.2494	12.2331	28.7556	0.0820	6.2706	0.1885	6.4590	1.6893	0.1826	1.8719	253.1486	13,122.6077	13,375.7563	17.6872	0.1926	13,875.3204

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2018	1/5/2019	6	57	
2	Building Construction	Building Construction	1/6/2019	11/3/2020	6	572	
3	Paving	Paving	11/4/2020	12/1/2020	6	24	
4	Architectural Coating	Architectural Coating	1/6/2019	1/30/2021	6	648	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.7

Residential Indoor: 534,367; Residential Outdoor: 178,122; Non-Residential Indoor: 1,489,740; Non-Residential Outdoor: 496,580; Striped Parking Area: 35,637 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	613.00	266.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	123.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2114	0.0000	0.2114	0.0986	0.0000	0.0986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1323	1.5476	0.9123	1.6100e-003		0.0685	0.0685		0.0630	0.0630	0.0000	147.2861	147.2861	0.0459	0.0000	148.4324
Total	0.1323	1.5476	0.9123	1.6100e-003	0.2114	0.0685	0.2799	0.0986	0.0630	0.1616	0.0000	147.2861	147.2861	0.0459	0.0000	148.4324

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3.2 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.3300e-003	0.0142	5.0000e-005	4.1100e-003	3.0000e-005	4.1400e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	4.1629	4.1629	1.1000e-004	0.0000	4.1656
Total	**1.8600e-003**	**1.3300e-003**	**0.0142**	**5.0000e-005**	**4.1100e-003**	**3.0000e-005**	**4.1400e-003**	**1.0900e-003**	**3.0000e-005**	**1.1200e-003**	**0.0000**	**4.1629**	**4.1629**	**1.1000e-004**	**0.0000**	**4.1656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0951	0.0000	0.0951	0.0444	0.0000	0.0444	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.0858	0.8580	1.6100e-003		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	147.2859	147.2859	0.0459	0.0000	148.4322
Total	**0.0198**	**0.0858**	**0.8580**	**1.6100e-003**	**0.0951**	**2.6400e-003**	**0.0978**	**0.0444**	**2.6400e-003**	**0.0470**	**0.0000**	**147.2859**	**147.2859**	**0.0459**	**0.0000**	**148.4322**

3.2 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.3300e-003	0.0142	5.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.8000e-004	3.0000e-005	9.0000e-004	0.0000	4.1629	4.1629	1.1000e-004	0.0000	4.1656
Total	**1.8600e-003**	**1.3300e-003**	**0.0142**	**5.0000e-005**	**3.2200e-003**	**3.0000e-005**	**3.2500e-003**	**8.8000e-004**	**3.0000e-005**	**9.0000e-004**	**0.0000**	**4.1629**	**4.1629**	**1.1000e-004**	**0.0000**	**4.1656**

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2114	0.0000	0.2114	0.0986	0.0000	0.0986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.1363	0.0834	1.6000e-004		5.9600e-003	5.9600e-003		5.4800e-003	5.4800e-003	0.0000	13.9253	13.9253	4.4100e-003	0.0000	14.0355
Total	**0.0119**	**0.1363**	**0.0834**	**1.6000e-004**	**0.2114**	**5.9600e-003**	**0.2174**	**0.0986**	**5.4800e-003**	**0.1041**	**0.0000**	**13.9253**	**13.9253**	**4.4100e-003**	**0.0000**	**14.0355**

3.2 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2300e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3879	0.3879	1.0000e-005	0.0000	0.3882
Total	**1.6000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3879**	**0.3879**	**1.0000e-005**	**0.0000**	**0.3882**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0951	0.0000	0.0951	0.0444	0.0000	0.0444	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-003	8.2500e-003	0.0825	1.6000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	13.9253	13.9253	4.4100e-003	0.0000	14.0355
Total	**1.9000e-003**	**8.2500e-003**	**0.0825**	**1.6000e-004**	**0.0951**	**2.5000e-004**	**0.0954**	**0.0444**	**2.5000e-004**	**0.0446**	**0.0000**	**13.9253**	**13.9253**	**4.4100e-003**	**0.0000**	**14.0355**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

3.2 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2300e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.3879	0.3879	1.0000e-005	0.0000	0.3882
Total	**1.6000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**8.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3879**	**0.3879**	**1.0000e-005**	**0.0000**	**0.3882**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.3636	3.2461	2.6432	4.1400e-003		0.1986	0.1986		0.1868	0.1868	0.0000	362.0605	362.0605	0.0882	0.0000	364.2655
Total	**0.3636**	**3.2461**	**2.6432**	**4.1400e-003**		**0.1986**	**0.1986**		**0.1868**	**0.1868**	**0.0000**	**362.0605**	**362.0605**	**0.0882**	**0.0000**	**364.2655**

3.3 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1852	5.5884	1.6588	0.0113	0.2678	0.0346	0.3024	0.0774	0.0331	0.1105	0.0000	1,145.2923	1,145.2923	0.1544	0.0000	1,149.1530
Worker	0.3094	0.2140	2.3257	8.1000e-003	0.7460	5.7700e-003	0.7517	0.1984	5.3100e-003	0.2038	0.0000	732.4390	732.4390	0.0174	0.0000	732.8751
Total	**0.4946**	**5.8025**	**3.9846**	**0.0194**	**1.0137**	**0.0404**	**1.0541**	**0.2758**	**0.0384**	**0.3143**	**0.0000**	**1,877.7313**	**1,877.7313**	**0.1719**	**0.0000**	**1,882.0280**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0505	0.3441	2.6889	4.1400e-003		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	362.0600	362.0600	0.0882	0.0000	364.2651
Total	**0.0505**	**0.3441**	**2.6889**	**4.1400e-003**		**6.2800e-003**	**6.2800e-003**		**6.2800e-003**	**6.2800e-003**	**0.0000**	**362.0600**	**362.0600**	**0.0882**	**0.0000**	**364.2651**

3.3 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1852	5.5884	1.6588	0.0113	0.2205	0.0346	0.2551	0.0658	0.0331	0.0989	0.0000	1,145.2923	1,145.2923	0.1544	0.0000	1,149.1530
Worker	0.3094	0.2140	2.3257	8.1000e-003	0.5848	5.7700e-003	0.5906	0.1589	5.3100e-003	0.1642	0.0000	732.4390	732.4390	0.0174	0.0000	732.8751
Total	**0.4946**	**5.8025**	**3.9846**	**0.0194**	**0.8053**	**0.0404**	**0.8457**	**0.2247**	**0.0384**	**0.2631**	**0.0000**	**1,877.7313**	**1,877.7313**	**0.1719**	**0.0000**	**1,882.0280**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Off-Road	0.2798	2.5326	2.2240	3.5500e-003		0.1475	0.1475		0.1386	0.1386	0.0000	305.7252	305.7252	0.0746	0.0000	307.5898
Total	**0.2798**	**2.5326**	**2.2240**	**3.5500e-003**		**0.1475**	**0.1475**		**0.1386**	**0.1386**	**0.0000**	**305.7252**	**305.7252**	**0.0746**	**0.0000**	**307.5898**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1291	4.3955	1.2985	9.5200e-003	0.2295	0.0194	0.2489	0.0663	0.0186	0.0849	0.0000	971.9373	971.9373	0.1297	0.0000	975.1793
Worker	0.2459	0.1636	1.8185	6.7100e-003	0.6394	4.9200e-003	0.6443	0.1701	4.5300e-003	0.1746	0.0000	607.6747	607.6747	0.0133	0.0000	608.0077
Total	**0.3750**	**4.5591**	**3.1170**	**0.0162**	**0.8689**	**0.0244**	**0.8932**	**0.2364**	**0.0231**	**0.2596**	**0.0000**	**1,579.6120**	**1,579.6120**	**0.1430**	**0.0000**	**1,583.1870**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0433	0.2950	2.3048	3.5500e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	305.7248	305.7248	0.0746	0.0000	307.5895
Total	**0.0433**	**0.2950**	**2.3048**	**3.5500e-003**		**5.3800e-003**	**5.3800e-003**		**5.3800e-003**	**5.3800e-003**	**0.0000**	**305.7248**	**305.7248**	**0.0746**	**0.0000**	**307.5895**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1291	4.3955	1.2985	9.5200e-003	0.1890	0.0194	0.2084	0.0564	0.0186	0.0750	0.0000	971.9373	971.9373	0.1297	0.0000	975.1793
Worker	0.2459	0.1636	1.8185	6.7100e-003	0.5013	4.9200e-003	0.5062	0.1362	4.5300e-003	0.1407	0.0000	607.6747	607.6747	0.0133	0.0000	608.0077
Total	**0.3750**	**4.5591**	**3.1170**	**0.0162**	**0.6903**	**0.0244**	**0.7146**	**0.1926**	**0.0231**	**0.2157**	**0.0000**	**1,579.6120**	**1,579.6120**	**0.1430**	**0.0000**	**1,583.1870**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.0163	0.1688	0.1758	2.7000e-004		9.0300e-003	9.0300e-003		8.3100e-003	8.3100e-003	0.0000	24.0339	24.0339	7.7700e-003	0.0000	24.2282
Paving	1.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0181**	**0.1688**	**0.1758**	**2.7000e-004**		**9.0300e-003**	**9.0300e-003**		**8.3100e-003**	**8.3100e-003**	**0.0000**	**24.0339**	**24.0339**	**7.7700e-003**	**0.0000**	**24.2282**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.6000e-004	4.0500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3518	1.3518	3.0000e-005	0.0000	1.3525
Total	**5.5000e-004**	**3.6000e-004**	**4.0500e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.3518**	**1.3518**	**3.0000e-005**	**0.0000**	**1.3525**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3700e-003	0.0146	0.2076	2.7000e-004		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	24.0338	24.0338	7.7700e-003	0.0000	24.2282
Paving	1.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1400e-003**	**0.0146**	**0.2076**	**2.7000e-004**		**4.5000e-004**	**4.5000e-004**		**4.5000e-004**	**4.5000e-004**	**0.0000**	**24.0338**	**24.0338**	**7.7700e-003**	**0.0000**	**24.2282**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.6000e-004	4.0500e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.3518	1.3518	3.0000e-005	0.0000	1.3525
Total	**5.5000e-004**	**3.6000e-004**	**4.0500e-003**	**1.0000e-005**	**1.1200e-003**	**1.0000e-005**	**1.1300e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**1.3518**	**1.3518**	**3.0000e-005**	**0.0000**	**1.3525**

3.5 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	3.4033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0410	0.2827	0.2836	4.6000e-004		0.0198	0.0198		0.0198	0.0198	0.0000	39.3201	39.3201	3.3200e-003	0.0000	39.4031
Total	**3.4443**	**0.2827**	**0.2836**	**4.6000e-004**		**0.0198**	**0.0198**		**0.0198**	**0.0198**	**0.0000**	**39.3201**	**39.3201**	**3.3200e-003**	**0.0000**	**39.4031**

3.5 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0621	0.0429	0.4667	1.6200e-003	0.1497	1.1600e-003	0.1508	0.0398	1.0700e-003	0.0409	0.0000	146.9657	146.9657	3.5000e-003	0.0000	147.0532
Total	**0.0621**	**0.0429**	**0.4667**	**1.6200e-003**	**0.1497**	**1.1600e-003**	**0.1508**	**0.0398**	**1.0700e-003**	**0.0409**	**0.0000**	**146.9657**	**146.9657**	**3.5000e-003**	**0.0000**	**147.0532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	3.4033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5800e-003	0.0198	0.2822	4.6000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	39.3201	39.3201	3.3200e-003	0.0000	39.4031
Total	**3.4079**	**0.0198**	**0.2822**	**4.6000e-004**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**39.3201**	**39.3201**	**3.3200e-003**	**0.0000**	**39.4031**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

3.5 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0621	0.0429	0.4667	1.6200e-003	0.1174	1.1600e-003	0.1185	0.0319	1.0700e-003	0.0330	0.0000	146.9657	146.9657	3.5000e-003	0.0000	147.0532
Total	**0.0621**	**0.0429**	**0.4667**	**1.6200e-003**	**0.1174**	**1.1600e-003**	**0.1185**	**0.0319**	**1.0700e-003**	**0.0330**	**0.0000**	**146.9657**	**146.9657**	**3.5000e-003**	**0.0000**	**147.0532**

3.5 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	3.4696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0380	0.2644	0.2875	4.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	40.0861	40.0861	3.1000e-003	0.0000	40.1637
Total	**3.5076**	**0.2644**	**0.2875**	**4.7000e-004**		**0.0174**	**0.0174**		**0.0174**	**0.0174**	**0.0000**	**40.0861**	**40.0861**	**3.1000e-003**	**0.0000**	**40.1637**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

3.5 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0391	0.4340	1.6000e-003	0.1526	1.1700e-003	0.1538	0.0406	1.0800e-003	0.0417	0.0000	145.0246	145.0246	3.1800e-003	0.0000	145.1040
Total	**0.0587**	**0.0391**	**0.4340**	**1.6000e-003**	**0.1526**	**1.1700e-003**	**0.1538**	**0.0406**	**1.0800e-003**	**0.0417**	**0.0000**	**145.0246**	**145.0246**	**3.1800e-003**	**0.0000**	**145.1040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	3.4696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6700e-003	0.0202	0.2877	4.7000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	40.0860	40.0860	3.1000e-003	0.0000	40.1636
Total	**3.4743**	**0.0202**	**0.2877**	**4.7000e-004**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**40.0860**	**40.0860**	**3.1000e-003**	**0.0000**	**40.1636**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

3.5 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0587	0.0391	0.4340	1.6000e-003	0.1196	1.1700e-003	0.1208	0.0325	1.0800e-003	0.0336	0.0000	145.0246	145.0246	3.1800e-003	0.0000	145.1040
Total	**0.0587**	**0.0391**	**0.4340**	**1.6000e-003**	**0.1196**	**1.1700e-003**	**0.1208**	**0.0325**	**1.0800e-003**	**0.0336**	**0.0000**	**145.0246**	**145.0246**	**3.1800e-003**	**0.0000**	**145.1040**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	0.2873					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0199	0.0236	4.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	3.3192	3.3192	2.3000e-004	0.0000	3.3249
Total	**0.2901**	**0.0199**	**0.0236**	**4.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**	**0.0000**	**3.3192**	**3.3192**	**2.3000e-004**	**0.0000**	**3.3249**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5500e-003	2.9100e-003	0.0332	1.3000e-004	0.0126	1.0000e-004	0.0127	3.3600e-003	9.0000e-005	3.4500e-003	0.0000	11.5795	11.5795	2.4000e-004	0.0000	11.5855
Total	**4.5500e-003**	**2.9100e-003**	**0.0332**	**1.3000e-004**	**0.0126**	**1.0000e-004**	**0.0127**	**3.3600e-003**	**9.0000e-005**	**3.4500e-003**	**0.0000**	**11.5795**	**11.5795**	**2.4000e-004**	**0.0000**	**11.5855**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating	0.2873					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	1.6700e-003	0.0238	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.3192	3.3192	2.3000e-004	0.0000	3.3249
Total	**0.2877**	**1.6700e-003**	**0.0238**	**4.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**3.3192**	**3.3192**	**2.3000e-004**	**0.0000**	**3.3249**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5500e-003	2.9100e-003	0.0332	1.3000e-004	9.9100e-003	1.0000e-004	0.0100	2.6900e-003	9.0000e-005	2.7800e-003	0.0000	11.5795	11.5795	2.4000e-004	0.0000	11.5855
Total	**4.5500e-003**	**2.9100e-003**	**0.0332**	**1.3000e-004**	**9.9100e-003**	**1.0000e-004**	**0.0100**	**2.6900e-003**	**9.0000e-005**	**2.7800e-003**	**0.0000**	**11.5795**	**11.5795**	**2.4000e-004**	**0.0000**	**11.5855**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Mitigated	3.3423	11.3176	27.3956	0.0761	6.2706	0.0916	6.3621	1.6893	0.0856	1.7750	0.0000	7,002.4999	7,002.4999	0.3512	0.0000	7,011.2790
Unmitigated	3.3423	11.3176	27.3956	0.0761	6.2706	0.0916	6.3621	1.6893	0.0856	1.7750	0.0000	7,002.4999	7,002.4999	0.3512	0.0000	7,011.2790

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	23.52	23.52	23.52	3,489	3,489
Condo/Townhouse High Rise	215.60	215.60	215.60	447,386	447,386
Elementary School	1,279.00	0.00	0.00	1,588,805	1,588,805
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	10,277.00	10,277.00	10277.00	14,265,835	14,265,835
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	6,785.02	6,785.02	6785.02	461,102	461,102
Total	18,580.15	17,301.15	17,301.15	16,766,617	16,766,617

4.3 Trip Type Information

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.55	0.55	0.55	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	6.42	6.42	6.42	31.00	15.00	54.00	86	11	3
Elementary School	9.50	1.14	7.30	65.00	30.00	5.00	63	25	12
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	4.66	4.66	4.66	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.28	0.28	0.28	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Condo/Townhouse High Rise	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Elementary School	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Enclosed Parking with Elevator	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
General Office Building	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Other Non-Asphalt Surfaces	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492
Regional Shopping Center	0.605720	0.039347	0.191789	0.088945	0.014469	0.004989	0.029396	0.009044	0.004299	0.004006	0.006568	0.000937	0.000492

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,762.4550	4,762.4550	0.2153	0.0446	4,781.1157
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,762.4550	4,762.4550	0.2153	0.0446	4,781.1157
NaturalGas Mitigated	0.1000	0.9076	0.7502	5.4600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	990.0863	990.0863	0.0190	0.0182	995.9698
NaturalGas Unmitigated	0.1000	0.9076	0.7502	5.4600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	990.0863	990.0863	0.0190	0.0182	995.9698

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	640616	3.4500e-003	0.0295	0.0126	1.9000e-004		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	34.1857	34.1857	6.6000e-004	6.3000e-004	34.3889
Elementary School	827500	4.4600e-003	0.0406	0.0341	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.1586	44.1586	8.5000e-004	8.1000e-004	44.4210
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.67012e+007	0.0901	0.8187	0.6877	4.9100e-003		0.0622	0.0622		0.0622	0.0622	0.0000	891.2396	891.2396	0.0171	0.0163	896.5358
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	384199	2.0700e-003	0.0188	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5023	20.5023	3.9000e-004	3.8000e-004	20.6242
Total		**0.1000**	**0.9076**	**0.7502**	**5.4500e-003**		**0.0691**	**0.0691**		**0.0691**	**0.0691**	**0.0000**	**990.0862**	**990.0862**	**0.0190**	**0.0182**	**995.9698**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	640616	3.4500e-003	0.0295	0.0126	1.9000e-004		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	34.1857	34.1857	6.6000e-004	6.3000e-004	34.3889
Elementary School	827500	4.4600e-003	0.0406	0.0341	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.1586	44.1586	8.5000e-004	8.1000e-004	44.4210
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.67012e +007	0.0901	0.8187	0.6877	4.9100e-003		0.0622	0.0622		0.0622	0.0622	0.0000	891.2396	891.2396	0.0171	0.0163	896.5358
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	384199	2.0700e-003	0.0188	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.5023	20.5023	3.9000e-004	3.8000e-004	20.6242
Total		**0.1000**	**0.9076**	**0.7502**	**5.4500e-003**		**0.0691**	**0.0691**		**0.0691**	**0.0691**	**0.0000**	**990.0862**	**990.0862**	**0.0190**	**0.0182**	**995.9698**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	267739	77.8883	3.5200e-003	7.3000e-004	78.1935
Elementary School	227000	66.0369	2.9900e-003	6.2000e-004	66.2957
Enclosed Parking with Elevator	4.00322e+006	1,164.5835	0.0527	0.0109	1,169.1467
General Office Building	1.09822e+007	3,194.8479	0.1445	0.0299	3,207.3663
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	890644	259.0984	0.0117	2.4200e-003	260.1137
Total		**4,762.4550**	**0.2154**	**0.0446**	**4,781.1157**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	267739	77.8883	3.5200e-003	7.3000e-004	78.1935
Elementary School	227000	66.0369	2.9900e-003	6.2000e-004	66.2957
Enclosed Parking with Elevator	4.00322e+006	1,164.5835	0.0527	0.0109	1,169.1467
General Office Building	1.09822e+007	3,194.8479	0.1445	0.0299	3,207.3663
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	890644	259.0984	0.0117	2.4200e-003	260.1137
Total		**4,762.4550**	**0.2154**	**0.0446**	**4,781.1157**

6.0 Area Detail

6.1 Mitigation Measures Area

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.8070	7.9200e-003	0.6099	3.8000e-004		0.0278	0.0278		0.0278	0.0278	2.5530	1.7584	4.3114	4.8400e-003	1.7000e-004	4.4823
Unmitigated	5.8070	7.9200e-003	0.6099	3.8000e-004		0.0278	0.0278		0.0278	0.0278	2.5530	1.7584	4.3114	4.8400e-003	1.7000e-004	4.4823

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.7160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9478					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1292	2.9700e-003	0.1779	3.5000e-004		0.0254	0.0254		0.0254	0.0254	2.5530	1.0487	3.6017	4.1000e-003	1.7000e-004	3.7542
Landscaping	0.0140	4.9400e-003	0.4320	2.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7097	0.7097	7.4000e-004	0.0000	0.7281
Total	5.8070	7.9100e-003	0.6099	3.7000e-004		0.0278	0.0278		0.0278	0.0278	2.5530	1.7584	4.3114	4.8400e-003	1.7000e-004	4.4823

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.7160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9478					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1292	2.9700e-003	0.1779	3.5000e-004		0.0254	0.0254		0.0254	0.0254	2.5530	1.0487	3.6017	4.1000e-003	1.7000e-004	3.7542
Landscaping	0.0140	4.9400e-003	0.4320	2.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7097	0.7097	7.4000e-004	0.0000	0.7281
Total	**5.8070**	**7.9100e-003**	**0.6099**	**3.7000e-004**		**0.0278**	**0.0278**		**0.0278**	**0.0278**	**2.5530**	**1.7584**	**4.3114**	**4.8400e-003**	**1.7000e-004**	**4.4823**

7.0 Water Detail

7.1 Mitigation Measures Water

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	417.8725	5.3641	0.1297	590.6208
Unmitigated	417.8725	5.3641	0.1297	590.6208

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 2.07318	2.1109	1.0000e-004	2.0000e-005	2.1192
Condo/Townhouse High Rise	3.64863 / 2.30022	9.2430	0.1193	2.8800e-003	13.0835
Elementary School	1.44985 / 3.72818	6.5382	0.0475	1.1700e-003	8.0755
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	152.851 / 93.6829	384.4857	4.9959	0.1208	545.3646
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.15987 / 3.7754	15.4947	0.2013	4.8700e-003	21.9781
Total		**417.8725**	**5.3641**	**0.1297**	**590.6208**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 2.07318	2.1109	1.0000e-004	2.0000e-005	2.1192
Condo/Townhouse High Rise	3.64863 / 2.30022	9.2430	0.1193	2.8800e-003	13.0835
Elementary School	1.44985 / 3.72818	6.5382	0.0475	1.1700e-003	8.0755
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	152.851 / 93.6829	384.4857	4.9959	0.1208	545.3646
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.15987 / 3.7754	15.4947	0.2013	4.8700e-003	21.9781
Total		**417.8725**	**5.3641**	**0.1297**	**590.6208**

8.0 Waste Detail

8.1 Mitigation Measures Waste

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	198.5313	11.7329	0.0000	491.8528
Unmitigated	198.5313	11.7329	0.0000	491.8528

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.15	0.0305	1.8000e-003	0.0000	0.0754
Condo/Townhouse High Rise	25.76	5.2291	0.3090	0.0000	12.9547
Elementary School	65	13.1944	0.7798	0.0000	32.6886
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	799.8	162.3522	9.5947	0.0000	402.2206
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	87.32	17.7252	1.0475	0.0000	43.9134
Total		**198.5313**	**11.7329**	**0.0000**	**491.8528**

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.15	0.0305	1.8000e-003	0.0000	0.0754
Condo/Townhouse High Rise	25.76	5.2291	0.3090	0.0000	12.9547
Elementary School	65	13.1944	0.7798	0.0000	32.6886
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	799.8	162.3522	9.5947	0.0000	402.2206
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	87.32	17.7252	1.0475	0.0000	43.9134
Total		**198.5313**	**11.7329**	**0.0000**	**491.8528**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

IB-BUILD Hamman, Hillside Cove <COMM'L VARIANT> - San Francisco County, Annual

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

IB-BUILD Flats and Earl Construction <COMM'L VARIANT>
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	123.42	1000sqft	2.83	123,415.00	0
Other Asphalt Surfaces	37.35	1000sqft	0.86	0.00	0
Other Non-Asphalt Surfaces	37.35	1000sqft	0.86	0.00	0
City Park	0.97	Acre	0.97	0.00	0
Condo/Townhouse High Rise	444.00	Dwelling Unit	3.10	570,819.00	1218
Regional Shopping Center	28.42	1000sqft	0.50	28,420.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)** 4.6	**Precipitation Freq (Days)** 64
Climate Zone	5		**Operational Year** 2023

Utility Company   Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr) 641.35   **CH4 Intensity (lb/MWhr)** 0.029   **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

Project Characteristics - Construction and Operations; assumed operational in 2023

Land Use - Acreage/sq footage taken from Dec 2016 RFI response

Construction Phase - 6 days/work wk; default days ratio'd up

Vehicle Trips - CityPk (Public Rec/OS)/other LU trip rates and other data based on traffic report Daily VMT calc sheet (20160916)

Energy Use -

Construction Off-road Equipment Mitigation - All equip at least Tier 4 Final. Assumes dust control measures consistent with BAAQMD and City of San Francisco Requirements. PM reduction for clean roads based on SCAQMD estimates of 25% to 60%.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	558.00
tblConstructionPhase	NumDays	230.00	475.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	NumDays	20.00	41.00
tblConstructionPhase	NumDays	20.00	41.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	6/24/2024	10/31/2022
tblConstructionPhase	PhaseStartDate	9/13/2022	1/19/2021
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	City Park
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	Condo/Townhouse High Rise
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Condo/Townhouse High Rise	Other Non-Asphalt Surfaces

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

tblGrading	AcresOfGrading	20.50	10.00
tblLandUse	BuildingSpaceSquareFeet	123,420.00	123,415.00
tblLandUse	BuildingSpaceSquareFeet	37,350.00	0.00
tblLandUse	BuildingSpaceSquareFeet	37,350.00	0.00
tblLandUse	BuildingSpaceSquareFeet	444,000.00	570,819.00
tblLandUse	GreenSpaceSquareFeet	42,253.20	0.00
tblLandUse	LandUseSquareFeet	123,420.00	123,415.00
tblLandUse	LandUseSquareFeet	37,350.00	0.00
tblLandUse	LandUseSquareFeet	37,350.00	0.00
tblLandUse	LandUseSquareFeet	42,253.20	0.00
tblLandUse	LandUseSquareFeet	444,000.00	570,819.00
tblLandUse	LotAcreage	6.94	3.10
tblLandUse	LotAcreage	0.65	0.50
tblLandUse	Population	1,270.00	1,218.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblVehicleTrips	CC_TL	7.30	0.55
tblVehicleTrips	CC_TL	7.30	0.28
tblVehicleTrips	CNW_TL	7.30	0.55
tblVehicleTrips	CNW_TL	7.30	0.28
tblVehicleTrips	CW_TL	9.50	0.55
tblVehicleTrips	CW_TL	9.50	0.28
tblVehicleTrips	HO_TL	5.70	6.42
tblVehicleTrips	HS_TL	4.80	6.42
tblVehicleTrips	HW_TL	10.80	6.42
tblVehicleTrips	ST_TR	22.75	13.52
tblVehicleTrips	ST_TR	4.31	3.85
tblVehicleTrips	ST_TR	49.97	81.59

tblVehicleTrips	SU_TR	16.74	13.52
tblVehicleTrips	SU_TR	3.43	3.85
tblVehicleTrips	SU_TR	25.24	81.59
tblVehicleTrips	WD_TR	1.89	13.52
tblVehicleTrips	WD_TR	4.18	3.85
tblVehicleTrips	WD_TR	42.70	81.59

2.0 Emissions Summary

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr							MT/yr			
2020	0.0758	0.7754	0.5003	9.2000e-004	0.1318	0.0381	0.1700	0.0693	0.0353	0.1046	0.0000	81.0034	81.0034	0.0235	0.0000	81.5909
2021	2.7987	4.3643	4.6525	0.0130	0.7378	0.1724	0.9102	0.2321	0.1627	0.3948	0.0000	1,189.8343	1,189.8343	0.1412	0.0000	1,193.3647
2022	2.2908	2.5569	3.0523	8.2900e-003	0.3886	0.0979	0.4865	0.1043	0.0925	0.1968	0.0000	757.3161	757.3161	0.0933	0.0000	759.6476
Maximum	**2.7987**	**4.3643**	**4.6525**	**0.0130**	**0.7378**	**0.1724**	**0.9102**	**0.2321**	**0.1627**	**0.3948**	**0.0000**	**1,189.8343**	**1,189.8343**	**0.1412**	**0.0000**	**1,193.3647**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr							MT/yr			
2020	0.0119	0.0473	0.5422	9.2000e-004	0.0604	1.4500e-003	0.0618	0.0315	1.4500e-003	0.0329	0.0000	81.0034	81.0034	0.0235	0.0000	81.5908
2021	2.5217	1.7178	4.8008	0.0130	0.5382	0.0139	0.5521	0.1628	0.0134	0.1763	0.0000	1,189.8338	1,189.8338	0.1412	0.0000	1,193.3643
2022	2.1292	1.0031	3.2075	8.2900e-003	0.3063	8.9200e-003	0.3152	0.0841	8.6600e-003	0.0928	0.0000	757.3158	757.3158	0.0933	0.0000	759.6473
Maximum	**2.5217**	**1.7178**	**4.8008**	**0.0130**	**0.5382**	**0.0139**	**0.5521**	**0.1628**	**0.0134**	**0.1763**	**0.0000**	**1,189.8338**	**1,189.8338**	**0.1412**	**0.0000**	**1,193.3643**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	9.73	64.03	-4.21	0.00	28.08	92.14	40.69	31.36	91.90	56.63	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2020	1-31-2021	1.3283	0.2345
2	2-1-2021	4-30-2021	1.7842	1.0840
3	5-1-2021	7-31-2021	1.8331	1.1093
4	8-1-2021	10-31-2021	1.8388	1.1150
5	11-1-2021	1-31-2022	1.8133	1.1179
6	2-1-2022	4-30-2022	1.6791	1.0607
7	5-1-2022	7-31-2022	1.6944	1.0637
8	8-1-2022	9-30-2022	0.6707	0.4349
		Highest	1.8388	1.1179

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Area	3.8915	0.0616	4.7103	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7036	33.9454	0.0377	1.3300e-003	35.2840
Energy	0.0281	0.2405	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	1,226.1258	1,226.1258	0.0482	0.0140	1,231.4930
Mobile	0.6906	2.3006	5.6740	0.0163	1.3859	0.0188	1.4046	0.3733	0.0175	0.3908	0.0000	1,500.4746	1,500.4746	0.0732	0.0000	1,502.3043
Waste						0.0000	0.0000		0.0000	0.0000	47.5324	0.0000	47.5324	2.8091	0.0000	117.7594
Water						0.0000	0.0000		0.0000	0.0000	9.8455	69.9102	79.7558	1.0144	0.0245	112.4258
Total	4.6102	2.6027	10.4893	0.0208	1.3859	0.2581	1.6440	0.3733	0.2569	0.6302	77.6197	2,810.2142	2,887.8339	3.9826	0.0398	2,999.2665

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Area	3.8915	0.0616	4.7103	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7036	33.9454	0.0377	1.3300e-003	35.2840
Energy	0.0281	0.2405	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	1,226.1258	1,226.1258	0.0482	0.0140	1,231.4930
Mobile	0.6906	2.3006	5.6740	0.0163	1.3859	0.0188	1.4046	0.3733	0.0175	0.3908	0.0000	1,500.4746	1,500.4746	0.0732	0.0000	1,502.3043
Waste						0.0000	0.0000		0.0000	0.0000	47.5324	0.0000	47.5324	2.8091	0.0000	117.7594
Water						0.0000	0.0000		0.0000	0.0000	9.8455	69.9102	79.7558	1.0144	0.0245	112.4258
Total	**4.6102**	**2.6027**	**10.4893**	**0.0208**	**1.3859**	**0.2581**	**1.6440**	**0.3733**	**0.2569**	**0.6302**	**77.6197**	**2,810.2142**	**2,887.8339**	**3.9826**	**0.0398**	**2,999.2665**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2020	12/1/2020	6	26	
2	Grading	Grading	12/2/2020	1/18/2021	6	41	
3	Building Construction	Building Construction	1/19/2021	7/26/2022	6	475	
4	Paving	Paving	7/27/2022	9/12/2022	6	41	
5	Architectural Coating	Architectural Coating	1/19/2021	10/31/2022	6	558	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.55

Residential Indoor: 1,155,908; Residential Outdoor: 385,303; Non-Residential Indoor: 42,630; Non-Residential Outdoor: 14,210; Striped Parking Area: 7,405 (Architectural Coating – sqft)

OffRoad Equipment

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	381.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	76.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4316	0.2828	5.0000e-004		0.0216	0.0216		0.0200	0.0200	0.0000	44.1982	44.1982	0.0125	0.0000	44.5101
Total	0.0431	0.4316	0.2828	5.0000e-004		0.0216	0.0216		0.0200	0.0200	0.0000	44.1982	44.1982	0.0125	0.0000	44.5101

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.5400e-003**	**1.0000e-005**	**1.5500e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	6.0100e-003	0.0260	0.3026	5.0000e-004		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	44.1981	44.1981	0.0125	0.0000	44.5101
Total	**6.0100e-003**	**0.0260**	**0.3026**	**5.0000e-004**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**44.1981**	**44.1981**	**0.0125**	**0.0000**	**44.5101**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.2100e-003**	**1.0000e-005**	**1.2200e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Fugitive Dust					0.1288	0.0000	0.1288	0.0684	0.0000	0.0684	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3430	0.2087	3.9000e-004		0.0166	0.0166		0.0152	0.0152	0.0000	33.8764	33.8764	0.0110	0.0000	34.1503
Total	**0.0316**	**0.3430**	**0.2087**	**3.9000e-004**	**0.1288**	**0.0166**	**0.1453**	**0.0684**	**0.0152**	**0.0837**	**0.0000**	**33.8764**	**33.8764**	**0.0110**	**0.0000**	**34.1503**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	**5.9000e-004**	**3.9000e-004**	**4.3800e-003**	**2.0000e-005**	**1.5400e-003**	**1.0000e-005**	**1.5500e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.4644**	**1.4644**	**3.0000e-005**	**0.0000**	**1.4652**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0579	0.0000	0.0579	0.0308	0.0000	0.0308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7200e-003	0.0205	0.2308	3.9000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	33.8763	33.8763	0.0110	0.0000	34.1502
Total	**4.7200e-003**	**0.0205**	**0.2308**	**3.9000e-004**	**0.0579**	**6.3000e-004**	**0.0586**	**0.0308**	**6.3000e-004**	**0.0314**	**0.0000**	**33.8763**	**33.8763**	**0.0110**	**0.0000**	**34.1502**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652
Total	5.9000e-004	3.9000e-004	4.3800e-003	2.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.4644	1.4644	3.0000e-005	0.0000	1.4652

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Fugitive Dust					0.1288	0.0000	0.1288	0.0684	0.0000	0.0684	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0172	0.1855	0.1189	2.2000e-004		8.7000e-003	8.7000e-003		8.0000e-003	8.0000e-003	0.0000	19.5403	19.5403	6.3200e-003	0.0000	19.6983
Total	0.0172	0.1855	0.1189	2.2000e-004	0.1288	8.7000e-003	0.1375	0.0684	8.0000e-003	0.0764	0.0000	19.5403	19.5403	6.3200e-003	0.0000	19.6983

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.0000e-004	2.3400e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8147	0.8147	2.0000e-005	0.0000	0.8151
Total	**3.2000e-004**	**2.0000e-004**	**2.3400e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**9.0000e-004**	**2.4000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.8147**	**0.8147**	**2.0000e-005**	**0.0000**	**0.8151**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust					0.0579	0.0000	0.0579	0.0308	0.0000	0.0308	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7200e-003	0.0118	0.1332	2.2000e-004		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	19.5403	19.5403	6.3200e-003	0.0000	19.6982
Total	**2.7200e-003**	**0.0118**	**0.1332**	**2.2000e-004**	**0.0579**	**3.6000e-004**	**0.0583**	**0.0308**	**3.6000e-004**	**0.0312**	**0.0000**	**19.5403**	**19.5403**	**6.3200e-003**	**0.0000**	**19.6982**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.0000e-004	2.3400e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.8147	0.8147	2.0000e-005	0.0000	0.8151
Total	**3.2000e-004**	**2.0000e-004**	**2.3400e-003**	**1.0000e-005**	**7.0000e-004**	**1.0000e-005**	**7.0000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.8147**	**0.8147**	**2.0000e-005**	**0.0000**	**0.8151**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2832	2.5974	2.4697	4.0100e-003		0.1428	0.1428		0.1343	0.1343	0.0000	345.1395	345.1395	0.0833	0.0000	347.2212
Total	**0.2832**	**2.5974**	**2.4697**	**4.0100e-003**		**0.1428**	**0.1428**		**0.1343**	**0.1343**	**0.0000**	**345.1395**	**345.1395**	**0.0833**	**0.0000**	**347.2212**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0327	1.2298	0.3754	2.8600e-003	0.0701	2.7600e-003	0.0729	0.0203	2.6400e-003	0.0229	0.0000	293.1849	293.1849	0.0389	0.0000	294.1573
Worker	0.1616	0.1032	1.1800	4.5400e-003	0.4486	3.3900e-003	0.4520	0.1193	3.1200e-003	0.1225	0.0000	411.1060	411.1060	8.4300e-003	0.0000	411.3167
Total	**0.1943**	**1.3330**	**1.5554**	**7.4000e-003**	**0.5187**	**6.1500e-003**	**0.5249**	**0.1396**	**5.7600e-003**	**0.1454**	**0.0000**	**704.2909**	**704.2909**	**0.0473**	**0.0000**	**705.4740**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0489	0.3330	2.6016	4.0100e-003		6.0800e-003	6.0800e-003		6.0800e-003	6.0800e-003	0.0000	345.1391	345.1391	0.0833	0.0000	347.2208
Total	**0.0489**	**0.3330**	**2.6016**	**4.0100e-003**		**6.0800e-003**	**6.0800e-003**		**6.0800e-003**	**6.0800e-003**	**0.0000**	**345.1391**	**345.1391**	**0.0833**	**0.0000**	**347.2208**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0327	1.2298	0.3754	2.8600e-003	0.0577	2.7600e-003	0.0605	0.0172	2.6400e-003	0.0199	0.0000	293.1849	293.1849	0.0389	0.0000	294.1573
Worker	0.1616	0.1032	1.1800	4.5400e-003	0.3517	3.3900e-003	0.3551	0.0956	3.1200e-003	0.0987	0.0000	411.1060	411.1060	8.4300e-003	0.0000	411.3167
Total	0.1943	1.3330	1.5554	7.4000e-003	0.4094	6.1500e-003	0.4156	0.1128	5.7600e-003	0.1186	0.0000	704.2909	704.2909	0.0473	0.0000	705.4740

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Off-Road	0.1510	1.3820	1.4482	2.3800e-003		0.0716	0.0716		0.0674	0.0674	0.0000	205.0768	205.0768	0.0491	0.0000	206.3051
Total	0.1510	1.3820	1.4482	2.3800e-003		0.0716	0.0716		0.0674	0.0674	0.0000	205.0768	205.0768	0.0491	0.0000	206.3051

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0182	0.6916	0.2188	1.6700e-003	0.0417	1.4500e-003	0.0431	0.0120	1.3900e-003	0.0134	0.0000	171.8405	171.8405	0.0228	0.0000	172.4102
Worker	0.0905	0.0554	0.6533	2.6000e-003	0.2664	1.9800e-003	0.2684	0.0709	1.8300e-003	0.0727	0.0000	235.1141	235.1141	4.5300e-003	0.0000	235.2274
Total	**0.1087**	**0.7470**	**0.8721**	**4.2700e-003**	**0.3081**	**3.4300e-003**	**0.3115**	**0.0829**	**3.2200e-003**	**0.0861**	**0.0000**	**406.9546**	**406.9546**	**0.0273**	**0.0000**	**407.6376**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0290	0.1978	1.5452	2.3800e-003		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	205.0766	205.0766	0.0491	0.0000	206.3049
Total	**0.0290**	**0.1978**	**1.5452**	**2.3800e-003**		**3.6100e-003**	**3.6100e-003**		**3.6100e-003**	**3.6100e-003**	**0.0000**	**205.0766**	**205.0766**	**0.0491**	**0.0000**	**206.3049**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0182	0.6916	0.2188	1.6700e-003	0.0343	1.4500e-003	0.0358	0.0102	1.3900e-003	0.0116	0.0000	171.8405	171.8405	0.0228	0.0000	172.4102
Worker	0.0905	0.0554	0.6533	2.6000e-003	0.2089	1.9800e-003	0.2109	0.0568	1.8300e-003	0.0586	0.0000	235.1141	235.1141	4.5300e-003	0.0000	235.2274
Total	**0.1087**	**0.7470**	**0.8721**	**4.2700e-003**	**0.2432**	**3.4300e-003**	**0.2466**	**0.0670**	**3.2200e-003**	**0.0702**	**0.0000**	**406.9546**	**406.9546**	**0.0273**	**0.0000**	**407.6376**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	0.0226	0.2281	0.2989	4.7000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	41.0565	41.0565	0.0133	0.0000	41.3885
Paving	1.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0237**	**0.2281**	**0.2989**	**4.7000e-004**		**0.0116**	**0.0116**		**0.0107**	**0.0107**	**0.0000**	**41.0565**	**41.0565**	**0.0133**	**0.0000**	**41.3885**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.1000e-004	5.9600e-003	2.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.1442	2.1442	4.0000e-005	0.0000	2.1452
Total	8.3000e-004	5.1000e-004	5.9600e-003	2.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.1442	2.1442	4.0000e-005	0.0000	2.1452

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road	5.7500e-003	0.0249	0.3546	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	41.0564	41.0564	0.0133	0.0000	41.3884
Paving	1.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.8800e-003	0.0249	0.3546	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	41.0564	41.0564	0.0133	0.0000	41.3884

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.1000e-004	5.9600e-003	2.0000e-005	1.9100e-003	2.0000e-005	1.9200e-003	5.2000e-004	2.0000e-005	5.3000e-004	0.0000	2.1442	2.1442	4.0000e-005	0.0000	2.1452
Total	**8.3000e-004**	**5.1000e-004**	**5.9600e-003**	**2.0000e-005**	**1.9100e-003**	**2.0000e-005**	**1.9200e-003**	**5.2000e-004**	**2.0000e-005**	**5.3000e-004**	**0.0000**	**2.1442**	**2.1442**	**4.0000e-005**	**0.0000**	**2.1452**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	2.2388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.2275	0.2708	4.4000e-004		0.0140	0.0140		0.0140	0.0140	0.0000	38.0435	38.0435	2.6100e-003	0.0000	38.1088
Total	**2.2714**	**0.2275**	**0.2708**	**4.4000e-004**		**0.0140**	**0.0140**		**0.0140**	**0.0140**	**0.0000**	**38.0435**	**38.0435**	**2.6100e-003**	**0.0000**	**38.1088**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0206	0.2354	9.1000e-004	0.0895	6.8000e-004	0.0902	0.0238	6.2000e-004	0.0244	0.0000	82.0054	82.0054	1.6800e-003	0.0000	82.0474
Total	**0.0322**	**0.0206**	**0.2354**	**9.1000e-004**	**0.0895**	**6.8000e-004**	**0.0902**	**0.0238**	**6.2000e-004**	**0.0244**	**0.0000**	**82.0054**	**82.0054**	**1.6800e-003**	**0.0000**	**82.0474**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	2.2388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4300e-003	0.0192	0.2730	4.4000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	38.0434	38.0434	2.6100e-003	0.0000	38.1087
Total	**2.2433**	**0.0192**	**0.2730**	**4.4000e-004**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**38.0434**	**38.0434**	**2.6100e-003**	**0.0000**	**38.1087**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0206	0.2354	9.1000e-004	0.0702	6.8000e-004	0.0708	0.0191	6.2000e-004	0.0197	0.0000	82.0054	82.0054	1.6800e-003	0.0000	82.0474
Total	**0.0322**	**0.0206**	**0.2354**	**9.1000e-004**	**0.0702**	**6.8000e-004**	**0.0708**	**0.0191**	**6.2000e-004**	**0.0197**	**0.0000**	**82.0054**	**82.0054**	**1.6800e-003**	**0.0000**	**82.0474**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Archit. Coating	1.9533					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	**1.9799**	**0.1831**	**0.2358**	**3.9000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2463**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0162	0.1914	7.6000e-004	0.0781	5.8000e-004	0.0787	0.0208	5.4000e-004	0.0213	0.0000	68.8918	68.8918	1.3300e-003	0.0000	68.9250
Total	**0.0265**	**0.0162**	**0.1914**	**7.6000e-004**	**0.0781**	**5.8000e-004**	**0.0787**	**0.0208**	**5.4000e-004**	**0.0213**	**0.0000**	**68.8918**	**68.8918**	**1.3300e-003**	**0.0000**	**68.9250**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating	1.9533					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0167	0.2382	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	**1.9572**	**0.0167**	**0.2382**	**3.9000e-004**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2463**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0162	0.1914	7.6000e-004	0.0612	5.8000e-004	0.0618	0.0166	5.4000e-004	0.0172	0.0000	68.8918	68.8918	1.3300e-003	0.0000	68.9250
Total	0.0265	0.0162	0.1914	7.6000e-004	0.0612	5.8000e-004	0.0618	0.0166	5.4000e-004	0.0172	0.0000	68.8918	68.8918	1.3300e-003	0.0000	68.9250

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6906	2.3006	5.6740	0.0163	1.3859	0.0188	1.4046	0.3733	0.0175	0.3908	0.0000	1,500.4746	1,500.4746	0.0732	0.0000	1,502.3043
Unmitigated	0.6906	2.3006	5.6740	0.0163	1.3859	0.0188	1.4046	0.3733	0.0175	0.3908	0.0000	1,500.4746	1,500.4746	0.0732	0.0000	1,502.3043

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	13.11	13.11	13.11	1,945	1,945
Condo/Townhouse High Rise	1,709.40	1,709.40	1709.40	3,547,130	3,547,130
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	2,318.79	2,318.79	2318.79	157,582	157,582
Total	4,041.30	4,041.30	4,041.30	3,706,657	3,706,657

4.3 Trip Type Information

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.55	0.55	0.55	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	6.42	6.42	6.42	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.28	0.28	0.28	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505
Condo/Townhouse High Rise	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505
Enclosed Parking with Elevator	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505
Other Asphalt Surfaces	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505
Other Non-Asphalt Surfaces	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505
Regional Shopping Center	0.605107	0.038687	0.192108	0.089453	0.014064	0.005036	0.030434	0.009181	0.004309	0.003768	0.006404	0.000941	0.000505

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	948.0751	948.0751	0.0429	8.8700e-003	951.7899
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	948.0751	948.0751	0.0429	8.8700e-003	951.7899
NaturalGas Mitigated	0.0281	0.2405	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	278.0507	278.0507	5.3300e-003	5.1000e-003	279.7031
NaturalGas Unmitigated	0.0281	0.2405	0.1050	1.5300e-003		0.0194	0.0194		0.0194	0.0194	0.0000	278.0507	278.0507	5.3300e-003	5.1000e-003	279.7031

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	5.07917e +006	0.0274	0.2340	0.0996	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	271.0440	271.0440	5.2000e-003	4.9700e-003	272.6547
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	131300	7.1000e-004	6.4400e-003	5.4100e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0067	7.0067	1.3000e-004	1.3000e-004	7.0483
Total		**0.0281**	**0.2405**	**0.1050**	**1.5300e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**278.0507**	**278.0507**	**5.3300e-003**	**5.1000e-003**	**279.7031**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	5.07917e +006	0.0274	0.2340	0.0996	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	271.0440	271.0440	5.2000e-003	4.9700e-003	272.6547
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	131300	7.1000e-004	6.4400e-003	5.4100e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0067	7.0067	1.3000e-004	1.3000e-004	7.0483
Total		**0.0281**	**0.2405**	**0.1050**	**1.5300e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**278.0507**	**278.0507**	**5.3300e-003**	**5.1000e-003**	**279.7031**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	2.12279e +006	617.5429	0.0279	5.7800e-003	619.9626
Enclosed Parking with Elevator	831817	241.9851	0.0109	2.2600e-003	242.9333
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	304378	88.5471	4.0000e-003	8.3000e-004	88.8941
Total		**948.0751**	**0.0429**	**8.8700e-003**	**951.7899**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	2.12279e +006	617.5429	0.0279	5.7800e- 003	619.9626
Enclosed Parking with Elevator	831817	241.9851	0.0109	2.2600e- 003	242.9333
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	304378	88.5471	4.0000e- 003	8.3000e- 004	88.8941
Total		**948.0751**	**0.0429**	**8.8700e- 003**	**951.7899**

6.0 Area Detail

6.1 Mitigation Measures Area

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8915	0.0616	4.7103	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7036	33.9454	0.0377	1.3300e-003	35.2840
Unmitigated	3.8915	0.0616	4.7103	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7036	33.9454	0.0377	1.3300e-003	35.2840

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0245	0.0236	1.4107	2.8100e-003		0.2017	0.2017		0.2017	0.2017	20.2418	8.3143	28.5561	0.0325	1.3300e-003	29.7650
Landscaping	0.0995	0.0380	3.2996	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.3893	5.3893	5.1900e-003	0.0000	5.5190
Total	3.8915	0.0616	4.7103	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7036	33.9454	0.0377	1.3300e-003	35.2840

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0245	0.0236	1.4107	2.8100e-003		0.2017	0.2017		0.2017	0.2017	20.2418	8.3143	28.5561	0.0325	1.3300e-003	29.7650
Landscaping	0.0995	0.0380	3.2996	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.3893	5.3893	5.1900e-003	0.0000	5.5190
Total	3.8915	0.0616	4.7103	2.9800e-003		0.2199	0.2199		0.2199	0.2199	20.2418	13.7036	33.9454	0.0377	1.3300e-003	35.2840

7.0 Water Detail

7.1 Mitigation Measures Water

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	79.7558	1.0144	0.0245	112.4258
Unmitigated	79.7558	1.0144	0.0245	112.4258

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use Mgal	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0 / 1.15574	1.1768	5.0000e-005	1.0000e-005	1.1814
Condo/Townhouse High Rise	28.9284 / 18.2375	73.2837	0.9455	0.0229	103.7334
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.10514 / 1.29025	5.2953	0.0688	1.6600e-003	7.5110
Total		**79.7558**	**1.0144**	**0.0245**	**112.4258**

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 1.15574	1.1768	5.0000e-005	1.0000e-005	1.1814
Condo/Townhouse High Rise	28.9284 / 18.2375	73.2837	0.9455	0.0229	103.7334
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.10514 / 1.29025	5.2953	0.0688	1.6600e-003	7.5110
Total		**79.7558**	**1.0144**	**0.0245**	**112.4258**

8.0 Waste Detail

8.1 Mitigation Measures Waste

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	47.5324	2.8091	0.0000	117.7594
Unmitigated	47.5324	2.8091	0.0000	117.7594

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Condo/Townhouse High Rise	204.24	41.4589	2.4502	0.0000	102.7126
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	29.84	6.0573	0.3580	0.0000	15.0066
Total		**47.5324**	**2.8091**	**0.0000**	**117.7594**

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Condo/Townhouse High Rise	204.24	41.4589	2.4502	0.0000	102.7126
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	29.84	6.0573	0.3580	0.0000	15.0066
Total		**47.5324**	**2.8091**	**0.0000**	**117.7594**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

IB-BUILD Flats and Earl Construction <COMM'L VARIANT> - San Francisco County, Annual

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

India Basin Construction Schedule

Year	Month	BUILD Grading and Excavation	BUILD Hamman, Hillside Cove	BUILD Big Green	BUILD Shoreline Wetlands	RPD 900 Innes	RPD India Basin Shoreline Park	BUILD Flats and Earl Construction	BUILD Beach
2018	1								
	2								
	3								
	4								
	5								
	6	1							
	7	2							
	8	3							
	9	4							
	10	5							
	11	6	1						
	12	7	2						
2019	1	8	3			1			
	2	9	4			2			
	3		5			3			
	4		6			4			
	5		7			5			
	6		8			6			
	7		9			7			
	8		10			8			
	9		11			9			
	10		12			10			
	11		13			11			
	12		14			12			
2020	1		15				1		
	2		16				2		
	3		17				3		
	4		18				4		
	5		19				5		
	6		20				6		
	7		21	1			7		
	8		22	2			8		
	9		23	3			9		
	10		24	4	1		10		
	11		25	5	2		11	1	
	12		26	6	3		12	2	
2021	1		27	7	4			3	
	2			8	5			4	
	3			9	6			5	
	4			10	7			6	
	5				8			7	
	6				9			8	
	7				10			9	
	8				11			10	
	9				12			11	
	10							12	
	11							13	1
	12							14	2
2022	1							15	3
	2							16	4
	3							17	5
	4							18	6
	5							19	7
	6							20	8
	7							21	9
	8							22	10
	9							23	11
	10							24	12
	11								
	12								

BUILD Grading and Excavation

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Demolition	Demolition	2018/06/01	2018/08/30	6	78
Grading	Grading	2018/08/31	2019/02/28	6	156

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**Offroad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37

Construction Trips Data								
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	144	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Grading	20	0	68198						

BUILD Hamman, Hillside Cove

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Grading	Grading	2018/11/01	2019/01/04	6	56
Building Construction	Building Construction	2019/01/05	2020/11/19	6	587
Architectural Coating	Architectural Coating	2019/01/05	2021/01/30	6	649
Paving	Paving	2020/11/20	2020/12/26	6	32

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**Offroad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	20	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	896	220	0						
Paving	15	0	0						
Architectural Coating	179	0	0						

BUILD Hamman, Hillside Cove - Commercial Variant

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Grading	Grading	2018/11/01	2019/01/05	6	57
Building Construction	Building Construction	2019/01/06	2020/11/03	6	572
Architectural Coating	Architectural Coating	2019/01/06	2021/01/30	6	648
Paving	Paving	2020/11/04	2020/12/01	6	24

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**OffRoad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	20	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	613	266	0						
Paving	15	0	0						
Architectural Coating	123	0	0						

BUILD Big Green

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2020/07/01	2020/07/08	6	7
Building Construction	Building Construction	2020/07/09	2021/03/19	6	218
Paving	Paving	2021/03/20	2021/04/09	6	18
Architectural Coating	Architectural Coating	2021/04/10	2021/04/30	6	18

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Excavators	1	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.2
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Cement and Mortar Mixers	2	6	9	0.56
Paving	Pavers	1	8	130	0.42
Paving	Paving Equipment	2	6	132	0.36
Paving	Rollers	2	6	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	23	0	0						
Paving	20	0	0						
Architectural Coating	5	0	0						

BUILD Shoreline Wetlands

Schedule					
Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Grading	Grading	2020/10/01	2020/10/26	6	22
Building Construction	Building Construction	2020/10/27	2021/08/12	6	249
Paving	Paving	2021/08/13	2021/09/07	6	22
Architectural Coating	Architectural Coating	2021/09/08	2021/09/30	6	20

Construction Offroad Equipment					
Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data									
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	23	0	0						
Paving	15	0	0						
Architectural Coating	5	0	0						

RPD 900 Innes

Schedule

Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Demolition	Demolition	2019/01/01	2019/05/31	6	130
Grading	Grading	2019/06/01	2019/06/06	6	5
Building Construction	Building Construction	2019/06/07	2019/12/03	6	154
Paving	Paving	2019/12/04	2019/12/17	6	12
Architectural Coating	Architectural Coating	2019/12/18	2019/12/31	6	12

Construction Offroad Equipment

Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Architectural Coating	Air Compressors	1	6	78	0.48
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Paving	Cement and Mortar Mixers	2	6	9	0.56
	Pavers	1	8	130	0.42
	Paving Equipment	2	6	132	0.36
	Rollers	2	6	80	0.38
	Tractors/Loaders/Backhoes	1	8	97	0.37

Construction Trips Data

Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	5	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	23	1	0						
Demolition	15	0	28						
Grading	15	0	477						
Paving	20	0	0						

RPD India Basin Shoreline Park

Schedule

Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Demolition	Demolition	2020/01/01	2020/01/18	6	16
Grading	Grading	2020/01/19	2020/02/15	6	24
Building Construction	Building Construction	2020/02/16	2020/11/23	6	241
Paving	Paving	2020/11/24	2020/12/11	6	16
Architectural Coating	Architectural Coating	2020/12/12	2020/12/31	6	17

Construction Offroad Equipment

Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data

Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	0						
Grading	20	0	6863						
Building Construction	23	1	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Paving	15	0	0						
Architectural Coating	5	0	0						

BUILD Flats and Earl

Schedule

Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Demolition	Demolition	2020/11/01	2020/12/01	6	26
Grading	Grading	2020/12/02	2021/01/18	6	41
Building Construction	Building Construction	2021/01/19	2022/07/26	6	475
Architectural Coating	Architectural Coating	2021/01/19	2022/10/31	6	558
Paving	Paving	2022/07/27	2022/09/12	6	41

Construction Offroad Equipment

Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data

Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Grading	15	0	0						
Building Construction	378	71	0						
Paving	15	0	0						
Architectural Coating	76	0	0						

BUILD Flats and Earl - Commercial Variant

Schedule

Subphase Name	Phase Type	Phase Start Date	Phase End Date	Days per Week	Number of Days
Demolition	Demolition	2020/11/01	2020/12/01	6	26
Grading	Grading	2020/12/02	2021/01/18	6	41
Building Construction	Building Construction	2021/01/19	2022/07/26	6	475
Architectural Coating	Architectural Coating	2021/01/19	2022/10/31	6	558
Paving	Paving	2022/07/27	2022/09/12	6	41

Construction Offroad Equipment

Subphase	Offroad Equipment Type	OffRoad Equipment Unit Amount	Usage Hours	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data

Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0	0						
Grading	15	0	0						
Building Construction	381	72	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Paving	15	0	0						
Architectural Coating	76	0	0						

BUILD Beach Pier OS

Schedule					
Subphase Name	**Phase Type**	**Phase Start Date**	**Phase End Date**	**Days per Week**	**Number of Days**
Grading	Grading	2021/11/01	2021/11/26	6	23
Building Construction	Building Construction	2021/11/27	2022/10/03	6	266
Paving	Paving	2022/10/04	2022/10/17	6	12
Architectural Coating	Architectural Coating	2022/10/18	2022/10/31	6	12

Construction Offroad Equipment					
Subphase	**Offroad Equipment Type**	**OffRoad Equipment Unit Amount**	**Usage Hours**	**Horsepower**	**Load Factor**
Grading	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	2	7	97	0.37
Building Construction	Cranes	1	8	231	0.29
	Forklifts	2	7	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	1	6	97	0.37
	Welders	3	8	46	0.45
Paving	Cement and Mortar Mixers	1	8	9	0.56
	Pavers	1	8	130	0.42
	Paving Equipment	1	8	132	0.36
	Rollers	2	8	80	0.38
	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips Data								
Subphase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	10	0	0	10.8	7.3	20	Light Duty Mix	Heavy Duty Truck Mix	Heavy-Heavy Duty Truck
Building Construction	20	0	0						
Paving	15	0	0						
Architectural Coating	4	0	0						